



City of Austin
Development Services Department
Development Assistance Center
One Texas Center, 505 Barton Springs Road
P.O. Box 1088, Austin, Texas 78767
Telephone: (512) 974-6370 Fax: (512) 974-2423

Determination of a Site Plan Determination/Exemption Request

Date: Wednesday, February 8, 2017

Number of pages including cover: 1

From: Christopher Johnson

To: ZACHERY SHEETS

Telephone: (330) 572-2148 FAX: (512) -

Project Name: Tesla Supercharger Station - DA-2016-0963

Address: 6719 1/2 MIDDLE FISKVILLE RD

Staff Contact:

Telephone:

Review Results	
Your request has been Approved .	
Fees Due	Cost
Site Plan Correction Review	
Landscape Inspection:	
Shared Parking Review	
Phasing Review:	
Change of Use Review	
Commercial Exemption Review	
TOTAL COST:	\$121.68

Based on the following your request has been Agreed (*see comments*):

Comments:



Development SERVICES DEPARTMENT

One Texas Center | 505 Barton Springs Road, Austin, Texas 78704 | Phone: 512.978.4000

DA-2014-0963

APF

Site Plan Exemption Request Form

Site Address: 6719 1/2 Middle Fiskville Rd.

Project Name: Tesla Supercharger Installation

Legal Description: Geographic ID: 0226140101

Property ID: 226752

Zoning: CS

Watershed: N/A

Flood Plain? ☐ Yes ☒ No

Existing Land Use(s): Shopping Center

Proposed Land Use(s): Shopping Center

Brief/General Description of the Development being sought:

Addition of Electric Vehicle Charge posts to an existing parking lot.

Attach a detailed description of the proposed development in a memorandum or letter and a site plat or survey plan that graphically indicates, but is not limited to:

- existing trees
- buildings
- parking areas
- roadways/streets
- all areas of impervious cover (existing & proposed)
- erosion controls (i.e., silt fencing, tree protection)
- limits of construction
- type of construction
- location of construction
- accessible parking
- access route
- on-site sewage (septic) systems

I, Zachery Sheets, do hereby certify that I am the
(Print Name)

☐ owner ☒ owner's agent (to act as the owner's agent, written authorization from the owner must be provided) of this described property, and in this capacity, submit this request for exemption from the site plan submittal requirements pursuant to Chapter 25-5-2 of the City of Austin Land Development Code.

Furthermore, I certify and acknowledge that:

1. Although the proposed development does not require a formal site plan approval, it may require, prior to beginning any site work, the approval of the subdivision or issuance of a building, remodel, and/or demolition permit;
2. Although the proposed development complies with all applicable zoning regulations, it does not prohibit enforcement of restrictive covenants and/or deed restrictions;
3. The approval of this exemption request does not constitute authorization to violate any provisions of the Austin City Code or other applicable requirements, which includes the use or occupancy of the improvement.
4. The approval notice with paid receipt shall be clearly posted on site and protected from the elements at all times.

Zachery Sheets

Digitally signed by Zachery Sheets
DN: cn=US, email=zacherysheets@group.com, o=GPD Group, cn=Zachery Sheets
Date: 2016.12.28 18:14:05-0500

Date: 12/28/2016

(Signature of Requester)

Address: 520 S Main St. Suite 2531 - Akron, OH 44311

Phone: 330-572-2148

SAVE Form



TEXAS DEPARTMENT OF LICENSING AND REGULATION
COMPLIANCE DIVISION - ARCHITECTURAL BARRIERS

P.O. Box 12157 • Austin, Texas 78711 • (512) 463-3211 • (800) 803-9202 • FAX (512) 475-2886
architectural.barriers@license.state.tx.us • www.license.state.tx.us

OWNER AGENT DESIGNATION

In accordance with the Texas Department of Licensing and Regulation's (TDLR) Administrative Rule 68.10(10), individuals designated to act on the owner's behalf must be designated in writing.

FORM MUST BE COMPLETED IN FULL

PLEASE PRINT OR TYPE

Project Information			
1. Project Name: The Linc - Shopping Center		2. EABPRJ #:	
3. Building or Facility Name: Tesla EV Charging Station			
4. Address: 6719 1/2 Middle Fiskville Rd.	Suite#:	City: Austin, TX	Zip: 78752

Owner Agent Information			
5. Name: Zachery Sheets		6. Company/Firm: GPD	
7. Address: 520 S Main St. Suite 2531		City: Akron	State: OH
8. Phone: 330-572-2148		9. Fax:	10. **Email: zsheets@gpdgroup.com

Building or Facility Owner Name (Person or Entity That Holds Title to Property)			
11. Name: Dean Davidov		12. Company/Firm: Austin Renaissance Limited	
13. Address: 433 N. Camden Drive, Suite 1177		City: Beverly Hills	State: CA
14. Phone: 310-553-4302		15. Fax:	16. **Email: Dean@Misuma.us

Owner's Designated Agent	
<p>If the owner chooses to designate an agent to act on the owner's behalf, per 16 Texas Administrative Code, Chapter 68, Architectural Barriers Administrative Rules 68.10(10), the owner must do so in writing. The Owner Agent Designation Form must accompany the Project Registration Form and/or Request for Inspection Form if an agent will be designated.</p>	
I, <u>Dean Davidov</u> designate <u>Zachery Sheets</u> as my agent Owner (Print) Agent (Print)	
In all responsibilities of ensuring compliance with the provisions of the Texas Architectural Barriers Act, Texas Government Code, Chapter 469.	
x <u></u> Owners Signature	<u>10/24/16</u> Date

TDLR FORM AB043 03-07

NOTE: An individual who completes and files this form with the Texas Department of Licensing and Regulation (the Dept.) is entitled to the following:

- 1) to be informed about the information that the Dept. collects about the individual, upon their request and subject to a few exceptions;
- 2) to receive and review the information, under Sections 552.021 and 552.023 of the Texas Govt. Code; and
- 3) have the Dept. correct information about the individual that is incorrect, under Section 559.004 of the Texas Govt. Code.

**The Department will add your address to the Architectural Barriers email notification list, which automatically provides Department information on matters affecting Architectural Barriers. Your email address is confidential pursuant to the Texas Public Information Act; the Department will not share it with the public. For additional information link to: <http://www.license.state.tx.us/newsletters/TDLRnotificationLists.asp>



City of Austin
911 ADDRESSING
CITY SERVICE ADDRESS VALIDATION

Email: addressing@austintexas.gov **Phone:** (512) 974-2797 **Fax:** (512) 974-3337
911 Addressing Website: <http://austintexas.gov/911addressing>

Date: February 6, 2017

The Following Is A Valid Address:

Address : 6719 1/2 MIDDLE FISKVILLE RD

***Please contact the United States Postal Service or go to www.usps.com for the correct zip code for this address.**

Legal Description:

Subdivision :

Block ID :

Lot ID :

Geographic ID: 0226140101

Property ID : 226752

Jurisdiction: AUSTIN FULL PURPOSE

Verify your jurisdiction with our new Jurisdictions Web Map: <http://austintexas.gov/gis/JurisdictionsWebMap/>

County: TRAVIS

Parent Address Place Id: 5400377

Comments: TESLA Charging Station

Signed:

A handwritten signature in cursive script, appearing to read "Catherine Winfrey", written over a horizontal line.

CATHERINE WINFREY

Disclaimer: The assignment and/or verification of this address does not authorize a change in land use or constitute the City of Austin's approval of any division of real property. The assignment and/or verification of this address does not supersede any requirements of the City of Austin's Land Development Code, the Texas Local Government Code, or any other state or municipal regulations.

TESLA



SUPERCHARGING STATION

6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752



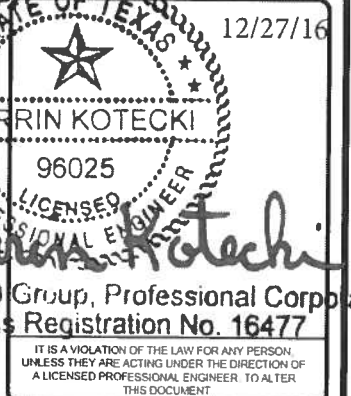
3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 881-5000



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

PROJECT NO: 2018241.21
DRAWN BY: REW
CHECKED BY: BP/EPM

REV	DATE	DESCRIPTION
G	12.22.18	REVISED PER SURVEY
F	11.08.16	REV. UTILITY PRIMARY DTLS
E	10.24.16	SIGNED AND SEALED
D	10.05.16	ISSUED FOR 100% REVIEW
C	09.20.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.23.16	ISSUED SITE SKETCH



GPD Group, Professional Corporation
Texas Registration No. 16477

6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE
TITLE SHEET &
PROJECT DATA

SHEET NUMBER
T-1

SITE INFORMATION		APPLICABLE CODES	PROJECT DESCRIPTION	DRAWING INDEX	
<p><u>SITE ADDRESS:</u> 6719 1/2 MIDDLE FISKVILLE RD. AUSTIN, TX 78752</p> <p><u>POWER COMPANY:</u> AUSTIN ENERGY CONTACT: DONALD PLEASANT (512) 505-7223</p> <p><u>PROPERTY OWNER:</u> MISUMA HOLDINGS CONTACT: DEAN DAVIDOV (310) 553-4302</p> <p><u>EQUIPMENT SUPPLIER:</u> TESLA MOTORS, INC. 3500 DEER CREEK RD PALO ALTO, CA 94304 (650) 681-5000</p> <p><u>CONTACT ENGINEER:</u> GPD GROUP, PROFESSIONAL CORPORATION CONTACT: ZACHERY SHEETS, PE (330) 572-2148 ZSHEETS@GPDGROUP.COM</p>		<p>ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:</p> <p>2012 INTERNATIONAL BUILDING CODE 2014 NATIONAL ELECTRICAL CODE</p> <p>IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.</p>	<ul style="list-style-type: none">• INSTALL (4) TESLA SUPERCHARGER CABINETS• INSTALL (8) TESLA CHARGING STATIONS• INSTALL (1) QED SWITCHGEAR ASSEMBLY• INSTALL (1) UTILITY TRANSFORMER• INSTALL (2) PEDESTRIAN LIGHT FIXTURE(S)	CIVIL	SHEET TITLE
				T-1	TITLE SHEET & PROJECT DATA
				GN-1	GENERAL NOTES
				GN-2	GENERAL NOTES
				GN-3	GENERAL NOTES
				PS-1	PROPERTY SURVEY
				C-1	OVERALL SITE PLAN
				C-2	DEMOLITION PLAN
				C-3	PROPOSED SITE PLAN
				C-4	DETAILS
				C-5	DETAILS
				C-6	FENCE DETAILS

DA- 2016-0963

GENERAL CONSTRUCTION NOTES

1. FOR THE PURPOSE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY
GENERAL CONTRACTOR: TBD
CONTRACTOR: TBD
OWNER: TESLA
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
3. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD DOCUMENTS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUES ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATION ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
13. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
14. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
15. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
16. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
17. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
19. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
20. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
21. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
22. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF

- THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
24. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
29. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
30. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
32. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
33. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
34. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
35. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

GENERAL SITE WORK NOTES

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- A. (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.














- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- G. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
- H. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- H. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR MULCHED SHALL BE GRADED TO MATCH EXISTING ELEVATIONS AND SODDED.

PART 2 - PRODUCTS

- 2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:
- 2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).
- 2.3 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTICS SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

SIEVE SIZE	TOTAL PERCENT PASSING
1 1/2 INCH (37.5 MM)	100
1 INCH (25.0 MM)	75 TO 100
3/4 INCH (19.00 MM)	80 TO 100
3/8 INCH (9.5 MM)	35 TO 75
NO. 4 (4.75 MM)	30 TO 60
NO. 30 (0.600 MM)	7 TO 30
NO. 200 (0.75 MM)	3 TO 15

LEGEND

	SPRINKLER HEAD
	LIGHT POLE
	ELECTRIC BOX
	UTILITY POLE
	GUY ANCHOR
	BOLLARD
	TRAFFIC SIGN
	DECIDUOUS TREE
	WATER LINE (UNDERGROUND)
	ELECTRIC LINE (OVERHEAD)
	ELECTRIC LINE (UNDERGROUND)
	HEDGE LINE
	CONCRETE AREA



3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-5000



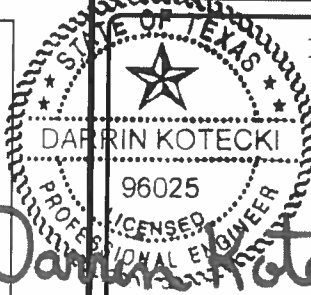
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

PROJECT NO: 2018241.21

DRAWN BY: REW

CHECKED BY: BP/EPM

REV	DATE	DESCRIPTION
G	12.22.16	REVISED PER SURVEY
F	11.08.16	REV. UTILITY PRIMARY DTLS
E	10.24.16	SIGNED AND SEALED
D	10.05.16	ISSUED FOR 100% REVIEW
C	09.20.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.23.16	ISSUED SITE SKETCH



GPD Group, Professional Corporation
Texas Registration No. 16477

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

GENERAL SITE WORK NOTES CONTINUED

PART 3 - EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- K. THE BASE OF ALL FOUNDATION EXCAVATIONS SHOULD BE FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATING TO MINIMIZE BEARING SOIL DISTURBANCE. SHOULD THE SOILS AT BEARING LEVEL BECOME EXCESSIVELY DRY, SATURATED, DISTURBED OR OTHERWISE ALTERED, THE AFFECTED SOIL SHOULD BE REMOVED PRIOR TO PLACING CONCRETE.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE,INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- E. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- F. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.
- D. CONTRACTOR TO GRADE SITE TO DRAIN AND NOT POND WATER.

3.6 ASPHALT PAVING:

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING PER LOCAL DOT SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED.

SIGN POST NOTES

1. ACCEPTABLE COLOR SUBSTITUTIONS:
2. OTHER ACCEPTABLE COLORS CAN BE FOUND ON ENCYCOLORPEDIA.COM
3. CONTRACTOR SHALL COORDINATE WITH CITY WHEN SPECIAL JURISDICTIONAL/CITY REQUESTS ARE NECESSARY FOR ANY SIGN POST INSTALLATIONS, I.E. POST MATERIAL, PAINT COLORS, HARDWARE, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING CITY APPROVES ALL MATERIALS PRIOR TO INSTALLATION.

PAINT COLOR SUBSTITUTIONS	
BRAND	COLOR
PANTONE	COOL GRAY #7 #a3a19e
BENJAMIN MOORE	FUSION / AF-675 #a6a3a1
BEHR	EQUINOX FF31-1 #9fa29d
SHERWIN - WILLIAMS	STAMPED CONCRETE - 7655 #a2a29b
VALSPAR	STONE MASON GRAY #a19c99



3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 881-5000



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

PROJECT NO: 2018241.21

DRAWN BY: REW

CHECKED BY: BP/EPM

REV	DATE	DESCRIPTION
G	12.22.16	REVISED PER SURVEY
F	11.08.16	REV. UTILITY PRIMARY DTLS
E	10.24.16	SIGNED AND SEALED
D	10.05.16	ISSUED FOR 100% REVIEW
C	09.20.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.23.16	ISSUED SITE SKETCH



GPD Group, Professional Corporation
Texas Registration No. 18477

6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

1. STRUCTURAL STEEL SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B.
2. HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325. ONE HIGH-STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
3. WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.1 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
4. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT.
5. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
6. ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
7. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.
8. PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11.

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F_m=1,500 PSI). MEDIUM WEIGHT. (115 PCF)
2. MORTAR SHALL BE TYPE "S" ABOVE GRADE, TYPE "M" BELOW GRADE CONFORMING TO ASTM C270. (MINIMUM 1,800 PSI AT 28 DAYS)
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS CONFORMING TO ASTM C476.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
9. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "STRUCTURAL CONCRETE NOTES FOR REQUIREMENTS. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. LAP SPLICES SHALL BE 48 BAR DIAMETERS, MINIMUM.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
14. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104 OF IBC.
15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
16. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
17. REFER TO DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.
19. ALL MORTAR FIN OBSTRUCTIONS AND DEBRIS SHALL BE CLEANED FROM INSIDE OF CELLS PRIOR TO GROUTING.

1. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED; CONTINUOUS INSPECTION IS NOT REQUIRED.
- SLUMP: 4" MIN/6" MAX.
- AIR ENTRAINMENT: 4 1/2% - 7% BY VOLUME
2. REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
3. REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI-318 FOR MINIMUM CLEARANCES.
4. ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
5. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
8. EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
9. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL - 2004, PUBLICATION SP-66" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-08.

PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.



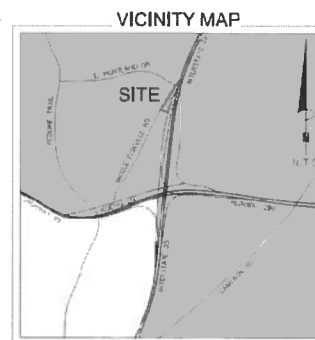
GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akrón, OH 44311
330.572.2100 Fax: 330.572.2102

G	12.22.10	REVISED PER SURVEY
F	11.08.16	REV. UTILITY PRIMARY DTLs
E	10.24.16	SIGNED AND SEALED
D	10.05.16	ISSUED FOR 100% REVIEW
C	09.20.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.23.16	ISSUED SITE SKETCH
REV	DATE	DESCRIPTION



GN-3



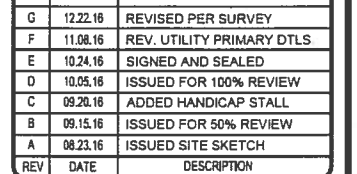
THENCE N 60° 13' 30" W 592.47 feet to the point of beginning, containing 680.100 square feet of land or 15.625 acres of land.

Clark  **Servicing ALTA Mapping**
177 S. Tiffany Dr., Unit 1 • Pueblo West, CO 81007 • 719.582.1270
www.clarkllc.com

[illegible]

SITE NAME:
Tesla-Linc Shopping Center

Project	160616	Drawn By: AMF	Date	9/21/16
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SHEET NUMBER

PS-1



GALAXY HIGHLAND 10

CHOSUN GALBI

MIDDLE FISKVILLE RD

N INTERSTATE HWY 35 SERVICE RD

N INTERSTATE HWY 35

PROJECT AREA
SEE PROPOSED SITE PLAN C-3

PROJECT AREA (S.F.)	
TOTAL ADDITIONAL IMPERVIOUS AREA	892
APPROXIMATE PROJECT AREA LIMITS OF CONSTRUCTION	2,957



0 25' 50' SCALE: 1"=50'-0" (11x17)



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(650) 861-5000



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PROJECT NO:	2016241.21
DRAWN BY:	REW
CHECKED BY:	BP/EPM

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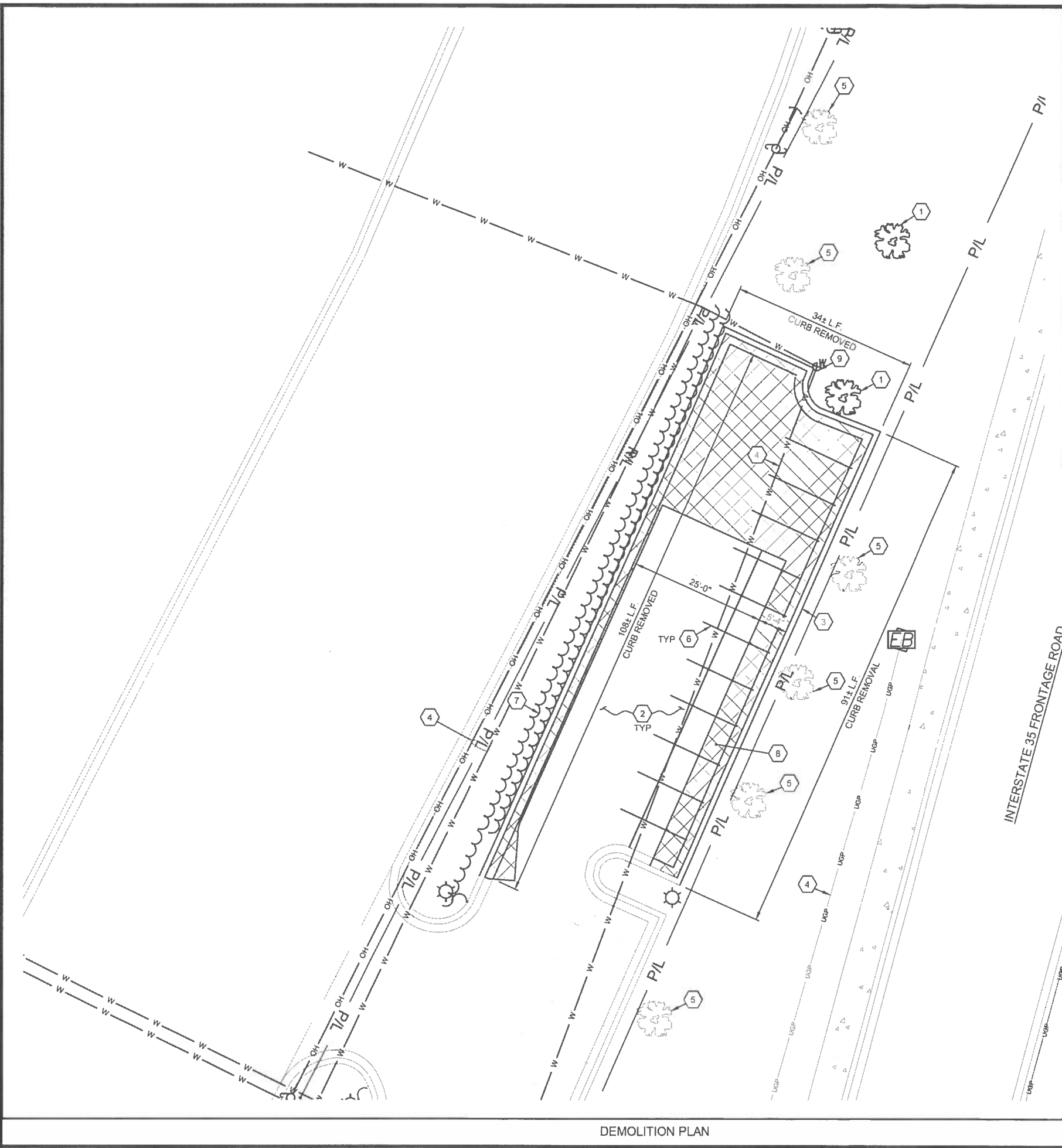
12/27/16

GPD Group, Professional Corporation
Texas Registration No. 16477

6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1



DEMOLITION PLAN

DEMOLITION KEYNOTES

1. EXISTING TREE TO BE REMOVED.
2. EXISTING PAVEMENT TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
3. EXISTING CURB AND GUTTER TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
4. EXISTING UNDERGROUND UTILITIES TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
5. EXISTING LANDSCAPING (INCLUDING BUSHES, TREES, ETC.) TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL OPERATE NO OR MINIMAL EQUIPMENT WHICH COULD COMPACT THE SOIL WITHIN EXISTING CRITICAL TREE ROOT ZONE. 75% OF THE CRITICAL ROOT ZONE SHALL BE UNDISTURBED.
6. EXISTING PAVEMENT MARKINGS TO BE REMOVED WITH SMALL HANDHELD GRINDERS OR SCARIFIERS OR OTHER METHODS, WITH THE APPROVAL OF THE ENGINEER. TAKE CARE DURING MARKING REMOVAL NOT TO SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVERPAINT OR USE OTHER METHODS OF COVERING MARKINGS.
7. EXISTING SHRUBS ALONG MIDDLE FISKVILLE ROAD TO BE REMOVED AT CURB REMOVAL LIMITS.
8. EXISTING CONCRETE PAVEMENT TO BE REMOVED FOR INSTALLATION OF CHARGE POST CONDUITS.
9. EXISTING SPRINKLER HEAD TO BE REMOVED AND REPLACED WITH ELBOW.

 EXISTING PAVEMENT TO BE REMOVED



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6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
C-2

0 10' 20' SCALE: 1"=20'-0" (11x17)

CONSTRUCTION KEYNOTES

1. PROPOSED PAD MOUNTED 500 KVA ELECTRICAL UTILITY TRANSFORMER (BY UTILITY). CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY SPECIFICATIONS. COORDINATE FINAL LOCATION WITH UTILITY. SEE ELECTRICAL PLANS FOR PROPOSED ROUTING.
2. PROPOSED ELECTRIC METER MOUNTED TO H-FRAME PER ELECTRIC COMPANY SPECIFICATIONS AND DETAIL ON ELECTRICAL SHEETS
3. PROPOSED PAINTED 4" WIDE SOLID WHITE STRIPE.
4. PROPOSED 6" CONCRETE CURB & GUTTER. SEE DETAIL ON SHEET C-5
5. PROPOSED TESLA ILLUMINATED CHARGE POST W/ INDIVIDUAL CONCRETE PAD (TYP. OF 8) SEE SHEET C-4
6. PROPOSED TESLA NON-ILLUMINATED PARKING SIGN (TYP. OF 8) SEE SHEET C-4
7. PROPOSED TESLA SUPERCHARGER CABINET (TYP. OF 4) SEE SHEET C-4
8. PROPOSED QED SWITCHGEAR ASSEMBLY PER ELECTRICAL DRAWINGS
9. PROPOSED LANDSCAPING. SEE DETAIL ON SHEET C-5.
10. PROPOSED RIVER ROCK GRAVEL. AREA TO EXTEND 6" BEYOND EDGE OF FENCE
11. PROPOSED TREX "SECLUSION" FENCING. SEE SHEET C-6
12. PROPOSED TREX "SECLUSION" SINGLE GATE W/ KEYPAD. SEE SHEET C-6
13. PROPOSED 7" P.C.C. PAVEMENT W/ W.W.F. 6" x 6" W2 9 x W2 9 (CONTROL JOINTS 12'-0" O.C.) OVER 4" CRUSHED AGGREGATE OR GRAVEL BASE. CONTRACTOR SHALL MATCH EXISTING DEPTH IF GREATER THAN 7" OVER 4" GRAVEL BASE
14. PROPOSED TRANSFORMER CLEAR SPACE 10' FRONT 3' SIDES
15. PROPOSED LIGHT POLE. FOUNDATION DETAIL PER SHEET C-5. SEE ELECTRICAL DRAWINGS FOR POLE AND FIXTURE SPECIFICATIONS AND WIRING. MOUNT SIGNS LIGHT POLE POST
16. PROPOSED PAINTED 4" WIDE WHITE TRANSVERSE STRIPING. STRIPING SHALL BE 3'-0" O.C. @ 45°
17. PROPOSED FREE-STANDING CURB. SEE SHEET C-4
18. PROPOSED 19'-0" X 4'-6" CONCRETE PAD. SEE DETAIL ON SHEET C-5

CHARGING POST CIRCUIT SCHEDULE

SUPERCHARGER	CHARGE POST	DEDICATED/ENABLED
②	1A	DEDICATED
	1B	DEDICATED
②	2A	DEDICATED
	2B	DEDICATED
③	3A	DEDICATED
	3B	DEDICATED
④	4A	DEDICATED
	4B	DEDICATED

PARKING STALL SCHEDULE

EXISTING STANDARD STALLS REMOVED AS A RESULT OF THIS PROJECT	10
PROPOSED TESLA STALLS	8
PROPOSED STD. STALLS	0
NET STALL COUNT	-2

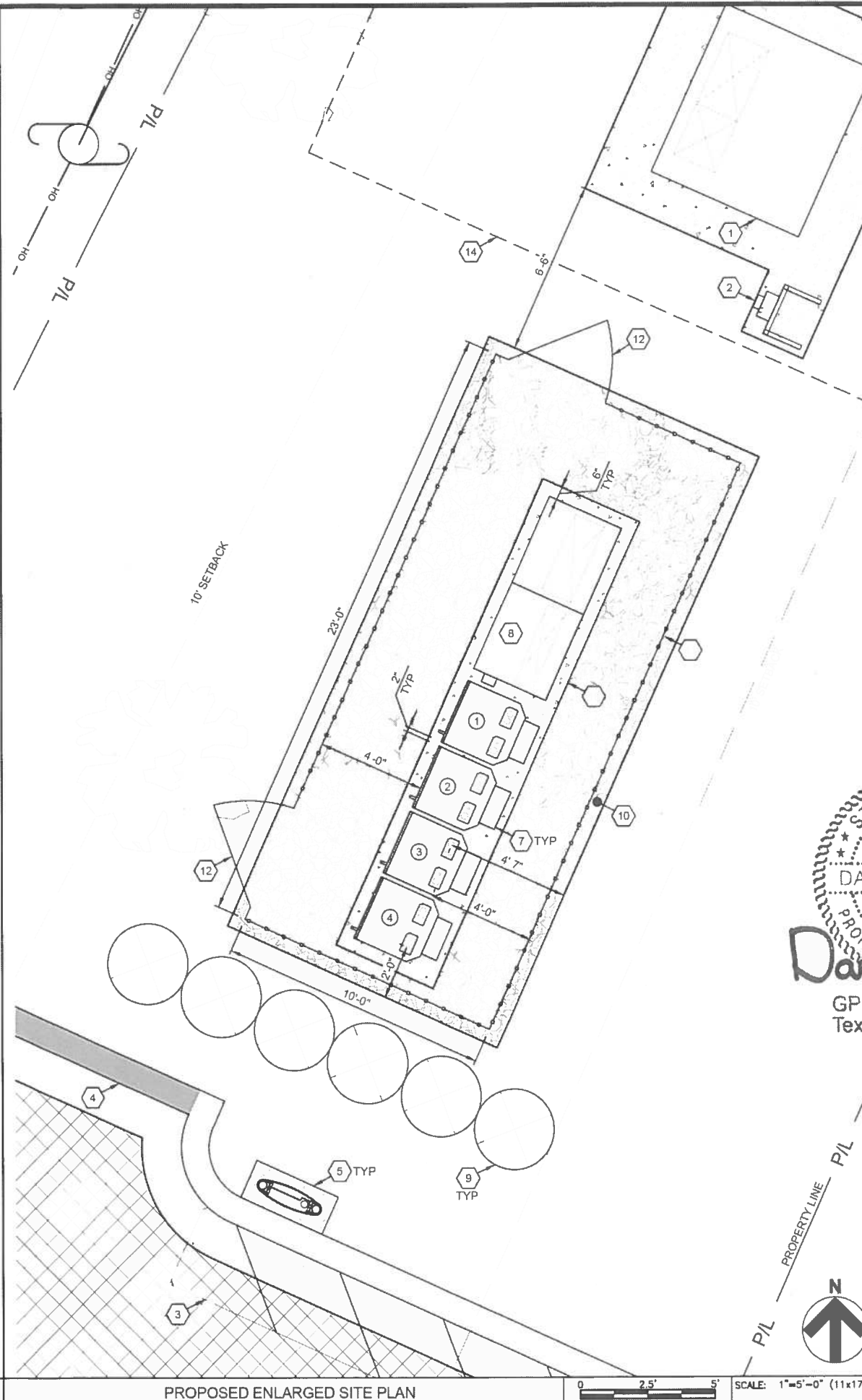
TESLA EQUIPMENT SCHEDULE

TESLA EQUIPMENT	DESCRIPTION	PART NUMBER	QUANTITY
SUPERCHARGER CABINET	GEN 2 L-N SUPERCHARGER	1033026-04-E	4
CHARGE POST BOLLARDS	BOLT-DOWN BOLLARDS	1024070-01-D	8
CHARGE POST JUNCTION BOX	DUAL CONDUCTOR	1048082-00-A	8
CHARGE POST DOCK	NORTH AMERICA	1028384-00-C	8

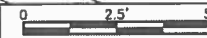
PROPOSED SITE PLAN



SCALE: 1"=20'-0" (11x17)



PROPOSED ENLARGED SITE PLAN



SCALE: 1"=5'-0" (11x17)

TESLA
MOTORS, INC.3500 DEER CREEK RD.
PALO ALTO, CA 94304
(650) 881-5000GPD GROUP
Professional Corporation520 South Main Street, Suite 2531
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330.572.2100 Fax: 330.572.2102

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12/27/16

GPD Group, Professional Corporation
Texas Registration No. 164776719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE

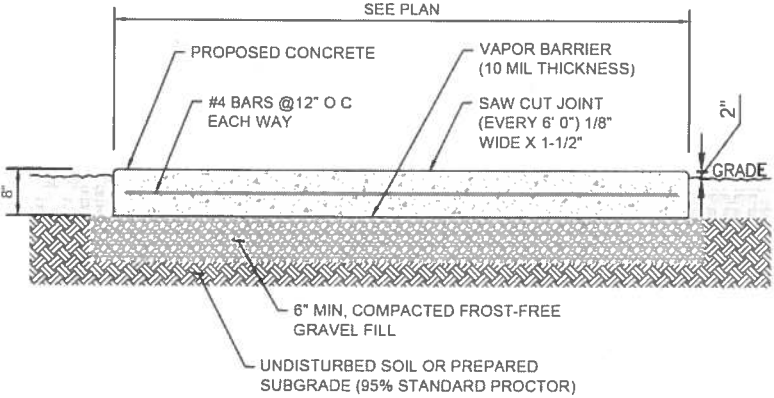
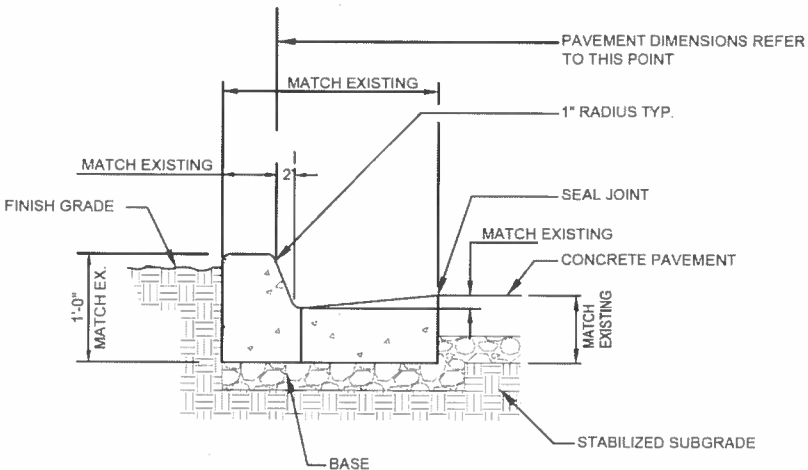
PROPOSED SITE PLAN

SHEET NUMBER

C-3

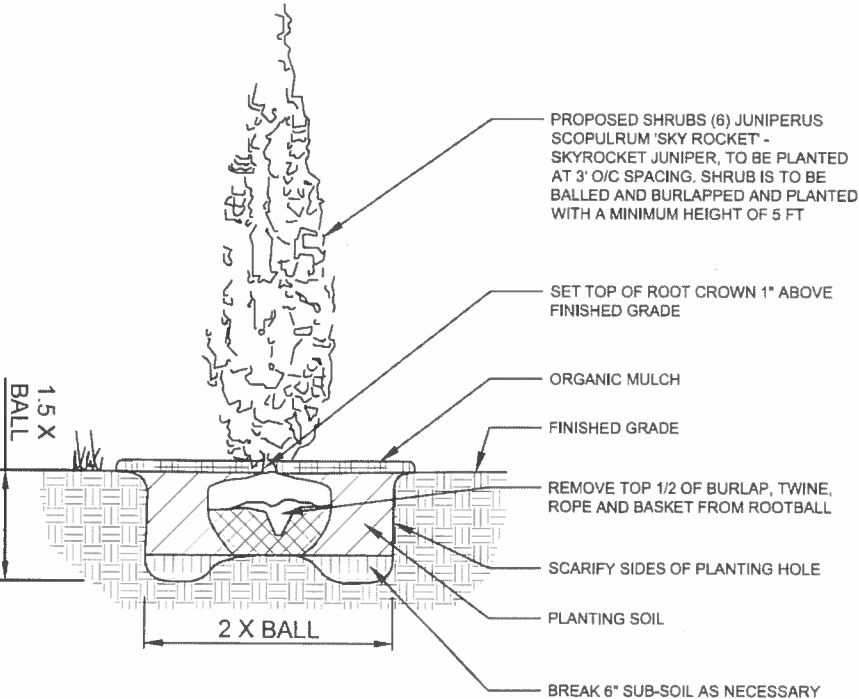
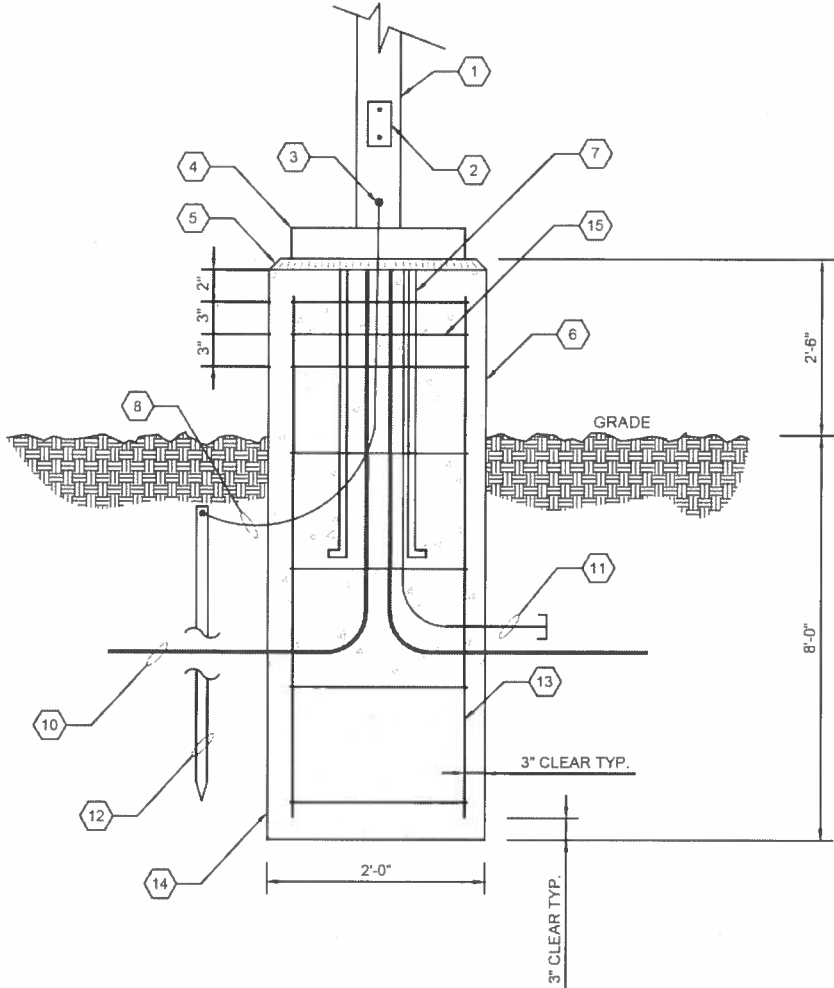
KEYED NOTES

- 1 POLE
2 HAND HOLE
3 GROUND LUG
4 BOLT COVER
5 45° CHAMFER
6 RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
7 ANCHOR BOLTS SUPPLIED WITH POLE
8 #6 CU. BASE GROUND CONDUCTOR
9 NOT USED
10 BRANCH CIRCUIT WIRING IN CONDUIT AT 24" (MINIMUM) BELOW GRADE
11 1" SPARE CONDUIT STUBBED INTO POLE BASE & CAPPED 12" FROM BASE
12 3/4"x10'-0" CU. CLAD GROUND ROD
13 (6) #6 REBAR (VERTICAL) TIE-WIRED TO #4 REBAR TIES AT 12" ON CENTER
14 REINFORCED CONCRETE, 4000 PSI COMPRESSIVE STRENGTH
15 ADDITIONAL #4 REBAR TIES @ 3" ON CENTER

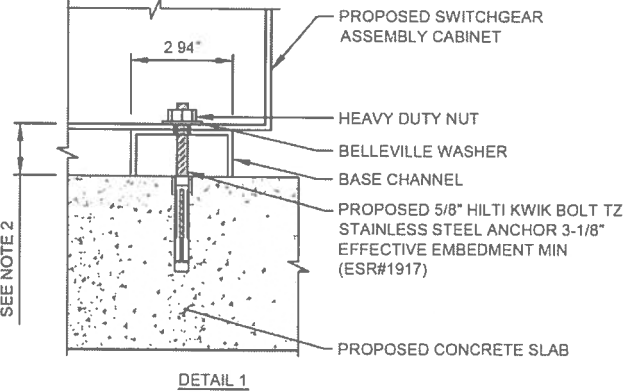
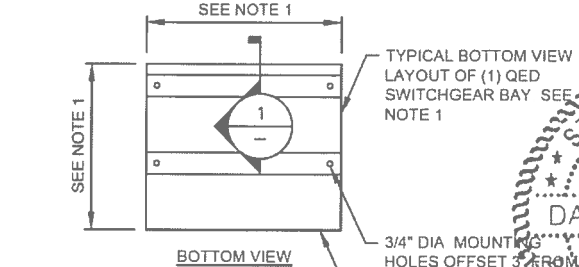


FOUNDATION NOTES & CONCRETE SPECIFICATIONS

1. FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1 TON VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS. 6 PASSES MINIMUM TO PROVIDE UNYIELDING SURFACE.
2. UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
3. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi. CONCRETE TO BE AIR ENTRAINED. DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%).
4. REINFORCING BAR TO BE ASTM A615 GRADE 60.
5. WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
6. ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
7. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.



PRUNE ROOTS IF BALL IS ROOTBOUND. REMOVE ALL CONTAINERS AND NON-BIODEGRADABLE BURLAP. WHEN BACKFILLING PLANT PIT, PLACE PLANTING SOIL IN TWO LIFTS. AFTER FIRST LIFT, PUDDLE SOIL IN WITH WATER TO REMOVE ALL AIR POCKETS. PLACE SECOND LIFT AND CONTINUE TO PUDDLE AND FILL AS NECESSARY.



- NOTES:
1. SEE FLOOR PLAN IN DETAIL A, SHEET E-4 FOR MOUNTING HOLE LOCATION AND SWITCHGEAR BAY DIMENSIONS.
2. SEE ELEVATION IN DETAIL A, SHEET E-4 FOR BASE CHANNEL DIMENSION.



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Akron, OH 44311
330.572.2100 Fax: 330.572.2102

PROJECT NO: 2016241.21
DRAWN BY: REW
CHECKED BY: BP/EPM

REV	DATE	DESCRIPTION
G	12.22.16	REVISED PER SURVEY
F	11.08.16	REV. UTILITY PRIMARY DTLS.
E	10.24.16	SIGNED AND SEALED
D	10.05.16	ISSUED FOR 100% REVIEW
C	09.29.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.23.16	ISSUED SITE SKETCH

12/27/16

DARRIN KOTECKI

96025

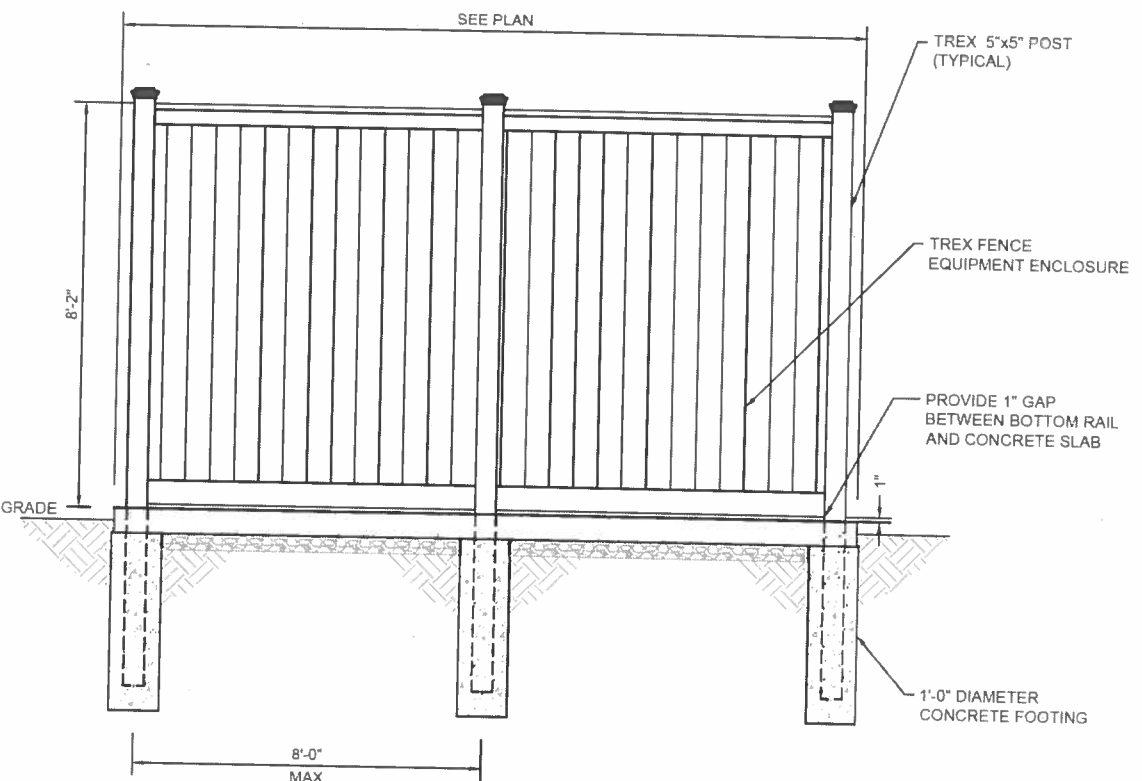
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SHEET TITLE
DETAILS

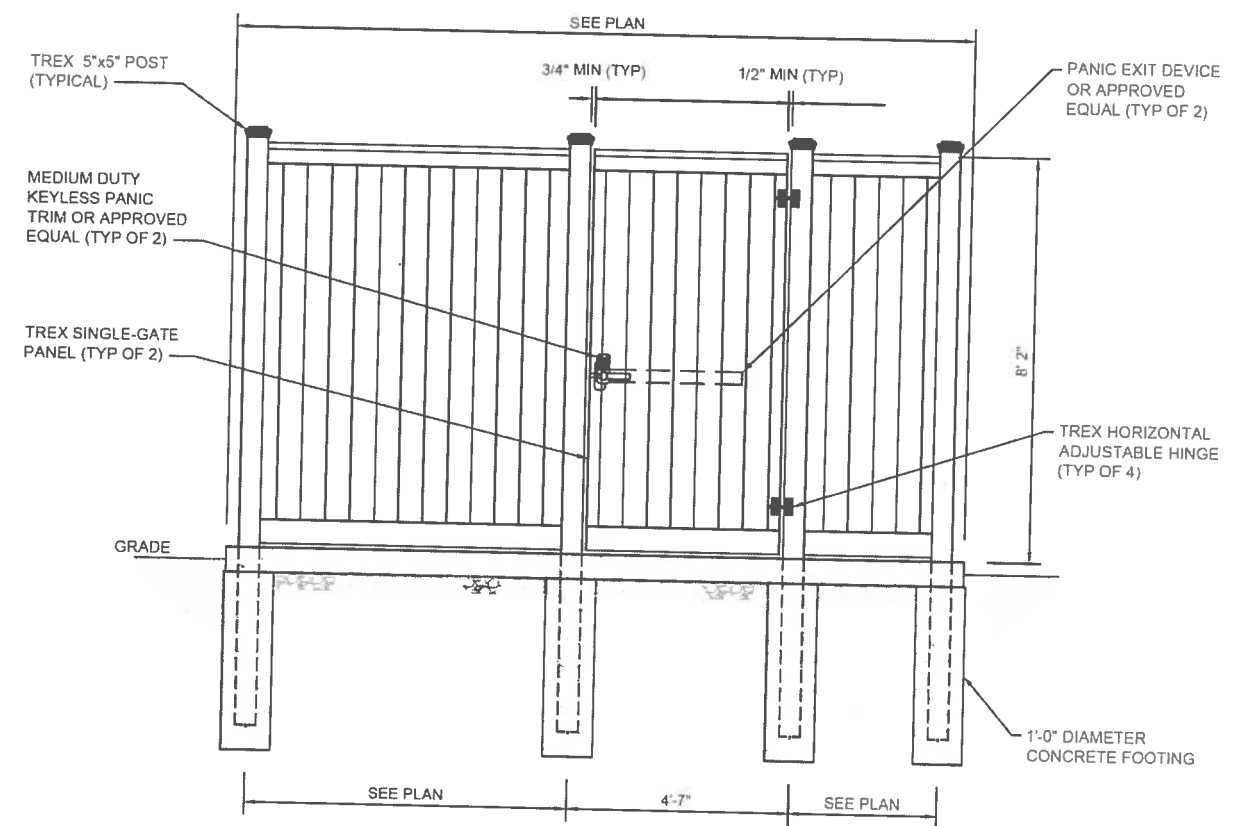
SHEET NUMBER
C-5



TREX FENCE DETAIL

N.T.S

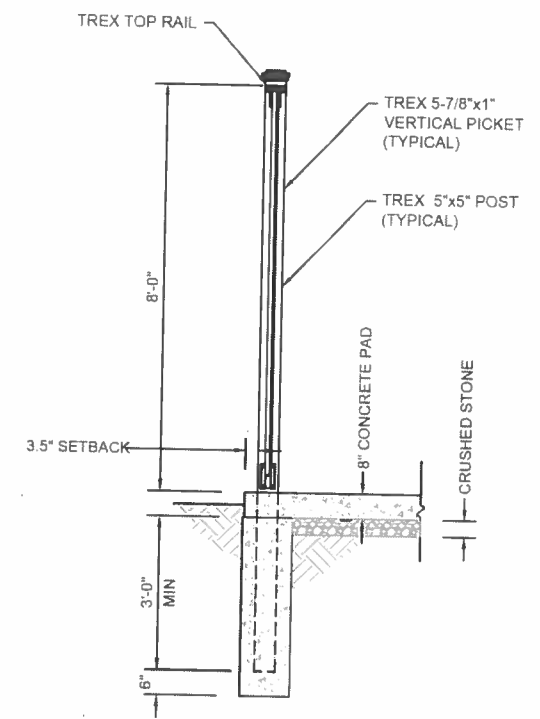
1



TREX GATE DETAIL

N.T.S

2



TREX FENCE SECTION

N.T.S

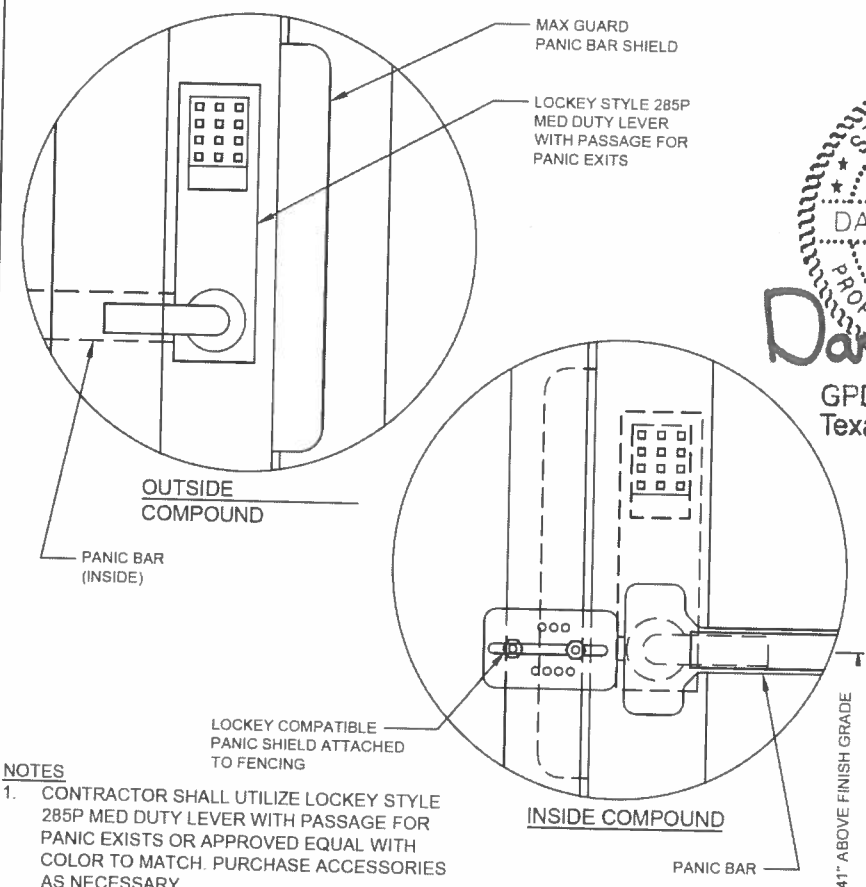
3

NOTE:
FENCING SHALL BE TREX
"SECLUSION" TYPE WITH
"WOODLAND BROWN" COLOR.

NOT USED

N.T.S

4



SINGLE GATE KEYPAD DETAIL

N.T.S

5

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DARRIN KOTECKI
96025
PROFESSIONAL ENGINEER
STATE OF TEXAS

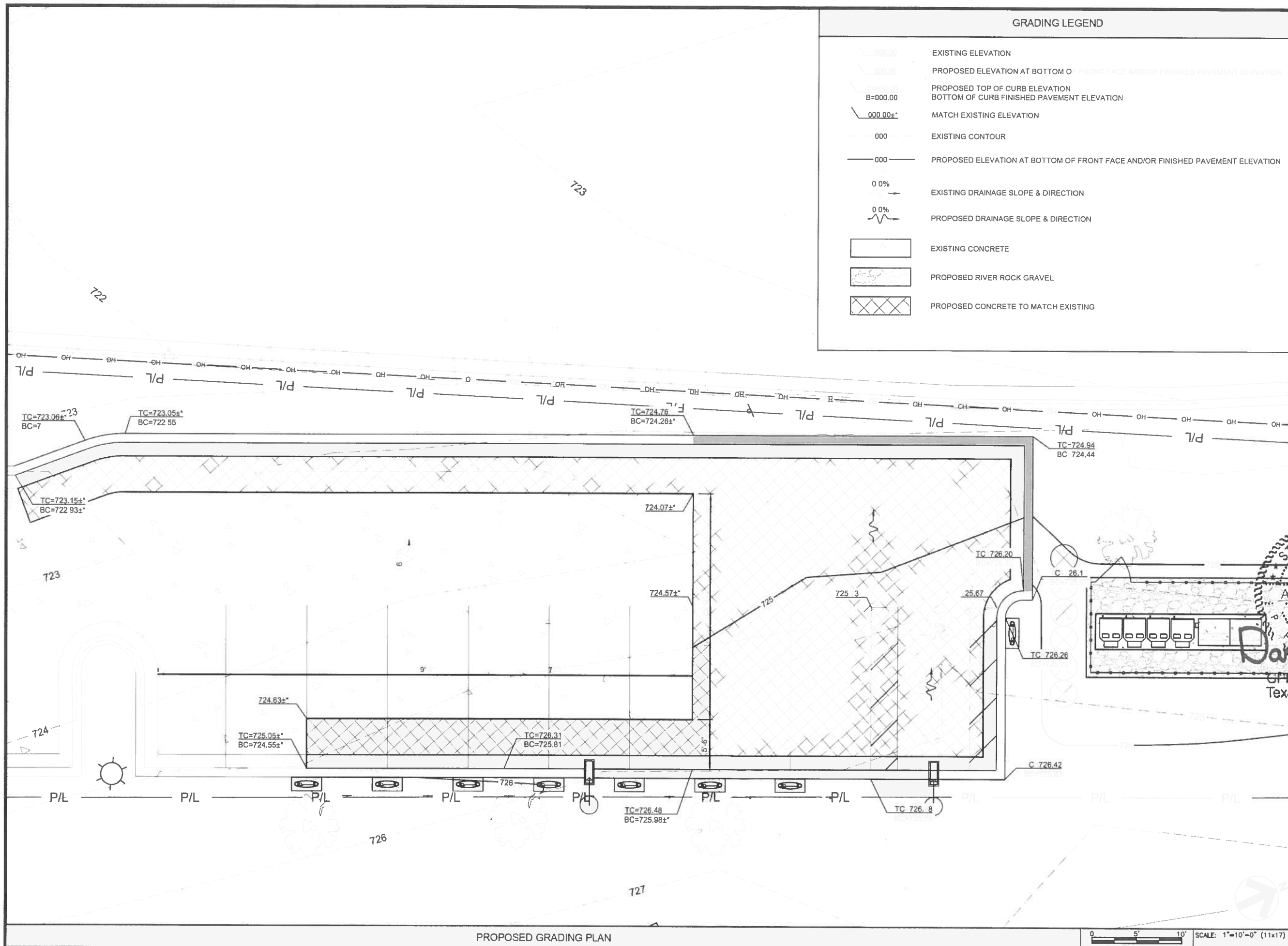
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AUSTIN, TX 78752

SHEET TITLE
FENCE DETAILS

SHEET NUMBER
C-6



GRADING LEGEND

	EXISTING ELEVATION
	PROPOSED ELEVATION AT BOTTOM OF FRONT FACE AND/OR FINISHED PAVEMENT ELEVATION
	PROPOSED TOP OF CURB ELEVATION BOTTOM OF CURB FINISHED PAVEMENT ELEVATION
	MATCH EXISTING ELEVATION
	EXISTING CONTOUR
	PROPOSED ELEVATION AT BOTTOM OF FRONT FACE AND/OR FINISHED PAVEMENT ELEVATION
	EXISTING DRAINAGE SLOPE & DIRECTION
	PROPOSED DRAINAGE SLOPE & DIRECTION
	EXISTING CONCRETE
	PROPOSED RIVER ROCK GRAVEL
	PROPOSED CONCRETE TO MATCH EXISTING

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STATE OF TEXAS

ARRIN KOTECKI
96025
LICENSED PROFESSIONAL ENGINEER

Arrin Kotecki

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SHEET TITLE
GRADING PLAN

SHEET NUMBER
C-7



GENERAL ELECTRICAL SPECIFICATIONS

1. THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THIS CONTRACTOR
2. **IMPORTANT NOTE:** "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS SUBCONTRACTORS UNLESS NOTED OTHERWISE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
4. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL NOTE SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
6. CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: THE CONTRACT, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF OWNER.
7. CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
8. INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUITS, ETC. MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND, AND HOLIDAY WORK AS REQUIRED.
9. ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE AWARD OF THE CONTRACT AND AN ADDENDUM WILL BE ISSUED TO COVER SAME.
10. GUARANTEE - CONTRACTOR SHALL FURNISH OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS OF WORK OR MATERIALS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.
11. MATERIALS - ALL MATERIALS AND EQUIPMENT SHALL BE NEW IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.
12. CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
13. ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
14. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.

LICENSES, CERTIFICATIONS OF INSPECTION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK.
2. CONTRACTOR AND ALL OF HIS SUBCONTRACTORS THAT DO ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED BY ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO BE PERFORMED. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED. ALL COSTS SHALL BE BORNE BY CONTRACTOR.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE BUILDING OWNER. CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

CODES AND ORDINANCES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST EDITION OF NEC AND ALL APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT AND SHALL INCLUDE BUT NOT BE LIMITED TO:
- A. UL - UNDERWRITERS LABORATORIES
 - B. NEC - NATIONAL ELECTRICAL CODE
 - C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 - D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - E. SBC - STANDARD BUILDING CODE
 - F. NFPA - NATIONAL FIRE CODES

SUPERCHARGER CABINET NOTE

1. PER NEC 625.22 - THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (SUPERCHARGER CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO ENSURE THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE OR CURRENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TESLA VEHICLE. THERE IS A 'HANDSHAKE' BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING. VOLTAGE IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE READING FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT BEGINS TO FLOW. IF AT ANY POINT IN THIS PROCESS A FAULT IS DETECTED, THE CHARGING WILL STOP IMMEDIATELY, WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ANY FAULT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS OF DETECTION. BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM OVER-CURRENT OR OVER-VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING FUSES ALSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

1. **AS-BUILT REQUIREMENTS:** DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. TO PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS, STORE IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE OWNER'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK DRAWINGS THAT ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE OWNER'S RECORDS. CONTRACTOR SHALL SUBMIT AS-BUILT SET OF PLANS TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION.

EXISTING CONDITIONS AND DEMOLITION

1. ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.
3. EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING RENOVATION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY LINES, DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING CONDUITS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
6. SITE VISIT - CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTOR'S MEASUREMENTS.

BASIC ELECTRICAL MATERIALS AND METHODS

1. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT CHASES IN WALLS AND FLOORS AS REQUIRED. ALL NEW OPENINGS SHALL BE COORDINATED WITH THE ENGINEER. ALL PENETRATIONS OF THE BUILDING WALLS, CEILING AND FLOORS, THE CONTRACTOR SHALL SEAL WITH QUALITY CAULK, FIRE RATED AND WATERTIGHT, SUBMITTED FOR APPROVAL BY THE OWNER.
2. **TRASH REMOVAL:** CONTRACTOR SHALL REMOVE ALL TRASH CREATED BY HIMSELF OR HIS SUBCONTRACTORS DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO REMOVE TRASH CREATED BY OTHER SUBCONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. PROMPTLY CLEAN-UP ALL SOILING, DEBRIS AND OTHER UNSIGHTLY OR HAZARDOUS CONDITIONS, CAUSED BY WORK OR DELIVERIES UNDER THIS CONTRACT, FROM THE BUILDING GROUNDS, ENTRIES, CORRIDORS, STAIRWAYS, ELEVATORS OR OTHER PUBLIC AREAS. ALL SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.
3. **SIGNAGE:** CONTRACTOR SHALL MAINTAIN SECURITY AROUND PERIMETER OF CONSTRUCTION SITE DURING ALL HOURS BY INSTALLING A TEMPORARY RIBBON FOR INTERIOR WORK TO IDENTIFY CONSTRUCTION AREAS AS REQUIRED. SIGNAGE SHALL BE POSTED WITH NOTIFICATIONS OF "NO TRESPASSING" AND "CONSTRUCTION AREA".
4. CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT PATCHING, AND REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. PATCH, PAINT, AND REPAIR ANY AREA DAMAGED TO THE SATISFACTION OF THE BUILDING OWNER.
6. THE EXACT LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE EXACT LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR THE MOUNTING AND SUPPORT OF ALL ITEMS REQUIRING THE SAME AS REQUIRED BY N.E.C.
8. TRENCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.
9. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
10. ALL BOLTS SHALL BE STAINLESS STEEL.
11. FOR UNDERGROUND RACEWAYS, PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR EARTH MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE RACEWAYS PER THE NEC.



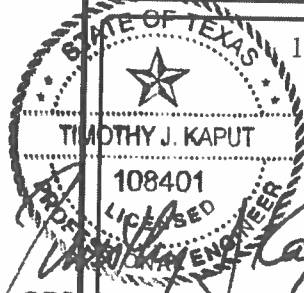
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AUSTIN, TX 78752

SHEET TITLE
ELECTRICAL
GENERAL NOTES

SHEET NUMBER
EN-1

1. ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.

1. CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.
2. PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.
3. FIRESTOPPING MATERIALS SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
4. PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH, OR 3M INC., MINNEAPOLIS, MN

1. CONTRACTOR SHALL CONDUCT A FAULT CURRENT CALCULATION AND COORDINATION STUDY TO ENSURE THE CORRECT AIC RATING OF NEW ELECTRICAL PANELBOARDS AND THE SETTINGS OF ANY ADJUSTABLE BREAKERS. THE RESULTS OF THESE STUDIES SHALL BE SUBMITTED WITH THE PANELBOARD SHOP DRAWINGS. ANY PANELS SUBMITTED WITHOUT THIS DOCUMENTATION WILL BE REJECTED WITHOUT BEING REVIEWED AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL PROVIDE AN ARC-FLASH STUDY AND LABEL ALL EQUIPMENT AS REQUIRED PER THE N.E.C.

1. ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.
2. ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.
3. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.
5. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.

1. PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.
2. PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.
3. COLOR CODING OF CONDUCTORS SHALL BE PER OWNERS REQUIREMENTS.
4. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC"

1. WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER, #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER WITH TYPE (THWN-2) INSULATION, 600V, COLOR CODED, UNLESS NOTED ALUMINUM (AL). REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. PROVIDE 75°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER. UNLESS NOTED OTHERWISE ON DRAWINGS.
2. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY N.E.C. (NOT TO EXCEED 3%).
3. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.
4. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
5. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
6. CABLES - MC CABLE IS NOT PERMITTED.
7. PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE, OR ENCORE WIRE.
8. PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO, OR BURNDY.

1. ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.
2. THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.
3. ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.
4. THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION). THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
 - A. TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.
 - B. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
 - C. TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
 - D. NECA / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS ABIDE BY ALL NECA / AA RECOMMENDATIONS.
 - E. DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL / ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW U.L. GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

1. RACEWAYS: UNLESS NOTE OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S., SCHEDULE 80 AND CONVERTED 6" BELOW FINISHED GRADE TO BE PVC, SCHEDULE 40. PROVIDE WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER N.E.C. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUAZITE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E. "POWER" "COMMUNICATIONS", "LIGHTING", ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - A. EXTERIOR ABOVE GROUND: R.G.S.
 - B. BELOW GRADE: SCHEDULE 40 PVC
2. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
3. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITZ ZINC' OR 'GOLD GALV'.
4. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
5. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED, CAROL CABLE COMPANY INCORPORATED, ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.
6. PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
7. PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
8. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
9. PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY, FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION, OR SCOTT FETZER COMPANY, ADALET-PLM.

1. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS AND/OR RISER DIAGRAM. PROVIDE NEMA ENCLOSURE AS REQUIRED BY EXPOSURE TYPE. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

1. FUSES SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE N.E.C.
2. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.

[illegible]

STATE OF TEXAS 12/27/16

TIMOTHY J. KAPUT

108401

LICENSED PROFESSIONAL ENGINEER

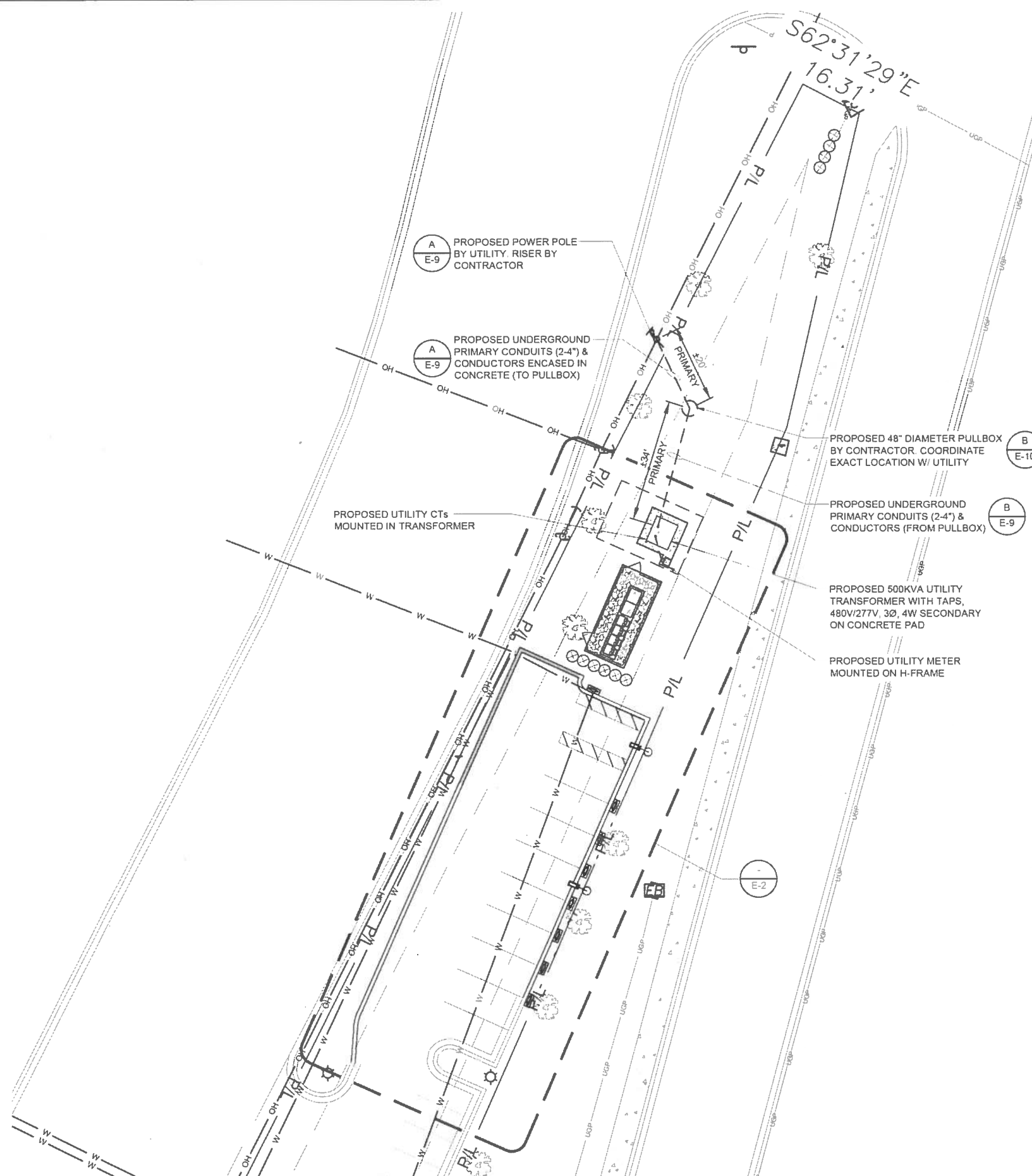
Timothy J. Kaput

GPD Group, Professional Corporation
Texas Registration No. 16477

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THIS DOCUMENT

SHEET TITLE
ELECTRICAL
GENERAL NOTES

EN-2



GENERAL SHEET NOTES

1. "C" DENOTES FEEDER REFERENCE. REFER TO SHEET E-3 FOR FEEDER/CIRCUIT SCHEDULE

POWER COMPANY CONTACTS

AUSTIN ENERGY
ATTN: DONALD PLEASANT
PHONE (512) 505-7223
e-mail: Donald.Pleasant@austinenergy.com

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES		
SCOPE	BY UTILITY COMPANY	BY CONTRACTOR
PROVIDE PRIMARY SIDE OVERHEAD CONDUCTORS	X	
PROVIDE PRIMARY SIDE TRENCHING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE & INSTALL UTILITY RISER POLE	X	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE UTILITY TRANSFORMER	X	
INSTALL UTILITY TRANSFORMER	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY)	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)	X	
PROVIDE METER BASE/PEDESTAL		X
INSTALL METER BASE/PEDESTAL		X
PROVIDE METER	X	
INSTALL METER	X	
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS		X
PROVIDE ROAD CUTS / ROAD BORES		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY AUSTIN ENERGY. FIELD VERIFY PRIOR TO CONSTRUCTION



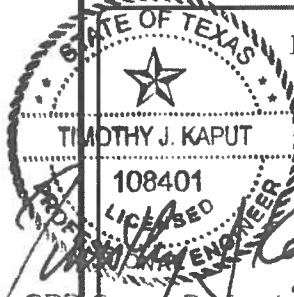
3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 881-5000



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

PROJECT NO: 2018241.21
DRAWN BY: REW
CHECKED BY: BP/EPM

REV	DATE	DESCRIPTION
G	12.22.18	REVISED PER SURVEY
F	11.08.18	REV. UTILITY PRIMARY DTLS.
E	10.24.18	SIGNED AND SEALED
D	10.05.18	ISSUED FOR 100% REVIEW
C	09.29.18	ADDED HANDICAP STALL
B	09.15.18	ISSUED FOR 50% REVIEW
A	08.23.18	ISSUED SITE SKETCH



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6719 1/2 MIDDLE FISKVILLE RD.
AUSTIN, TX 78752

SHEET TITLE
OVERALL UTILITY PLAN

SHEET NUMBER
E-1

OVERALL UTILITY PLAN

0 15' 30' SCALE: 1"=30'-0" (11x17)

DC SUPERCHARGING POST LENGTHS			
SUPERCHARGER	CHARGE POST	LINEAR LENGTH (FT)	***ESTIMATED LENGTH (FT)***
1	1A	15	37
	1B	21	43
2	2A	24	46
	2B	25	47
3	3A	28	50
	3B	29	51
4	4A	32	54
	4B	96	118
TOTAL LENGTH OF DC AI WIRE=			1784
TOTAL LENGTH OF #3 AWG GND Cu & COMM CABLE WIRE=			446

(SEE SHEET E-3 FOR WIRE CONFIGURATION)

***TOTAL LENGTH OF AI WIRE = SUM OF ESTIMATED LENGTH
x 4 WIRES PER SUPERCHARGE POST
***TOTAL LENGTH OF GND Cu, COMM CABLE WIRE
= SUM OF ESTIMATED LENGTHS

AC SUPERCHARGER LENGTHS			
SERVICE EQUIPMENT	SUPERCHARGER	LINEAR LENGTH (FT)	**ESTIMATED LENGTH (FT)**
CIRCUIT 1 I-LINE PANEL	1	9	25
CIRCUIT 2 I-LINE PANEL	2	13	29
CIRCUIT 3 I-LINE PANEL	3	17	33
CIRCUIT 4 I-LINE PANEL	4	21	37
TOTAL LENGTH OF AC Cu WIRE=			496
TOTAL LENGTH OF GND Cu WIRE=			124

(SEE SHEET E-3 FOR WIRE CONFIGURATION)

**TOTAL LENGTH OF Cu WIRE = SUM OF ESTIMATED LENGTH
x 4 WIRES PER SUPERCHARGER
**TOTAL LENGTH OF GND Cu WIRE = SUM OF ESTIMATED LENGTH

UTILITY SERVICE LATERAL LENGTHS		
UTILITY TRANSFORMER TO SERVICE EQUIPMENT	LINEAR LENGTH (FT)	*ESTIMATED LENGTH (FT)*
	12	34
TOTAL LENGTH OF Cu WIRE PER CONDUIT=		136
NUMBER OF WIRE FILLED CONDUIT=		3
TOTAL LENGTH OF Cu WIRE=		408

(SEE SHEET E-3 FOR WIRE CONFIGURATION)

*TOTAL LENGTH OF Cu WIRE = x 4 WIRES PER CONDUIT
x ESTIMATED LENGTH
x NUMBER OF FILLED CONDUITS

* AC UTILITY SERVICE CONDUCTORS:
22 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH.
** AC CONDUCTORS:
16 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH.
*** DC CONDUCTORS:
22 FEET IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH

GENERAL SHEET NOTES

- CONDUCTOR LENGTHS ARE ESTIMATES ONLY. LENGTHS ARE BASED ON DIAGRAMMATICAL MEASUREMENTS AND APPROXIMATED BURIED DEPTHS. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY CONTRACTOR IN FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER)
- DC RUN LENGTH MAXIMUM IS 120'-0" INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS BEYOND THIS MAXIMUM SHALL BE ADDRESSED WITH THE APPROPRIATE ENGINEERING TEAMS AS SOON AS THE SITUATION ARISES
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION
- ALL AI CONDUCTORS TO RECEIVE ANTI OXIDATIVE COATING DURING INSTALLATION
- "C" DENOTES FEEDER REFERENCE. REFER TO SHEET E-3 FOR FEEDER/CIRCUIT SCHEDULE



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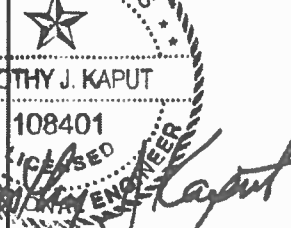
PROJECT NO: 2016241.21

DRAWN BY: REW

CHECKED BY: BP/EPM

REV	DATE	DESCRIPTION
G	12.22.16	REVISED PER SURVEY
F	11.03.16	REV. UTILITY PRIMARY DTLS
E	10.24.16	SIGNED AND SEALED
D	10.05.16	ISSUED FOR 100% REVIEW
C	09.20.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.21.16	ISSUED SITE SKETCH

12/27/16



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SHEET TITLE

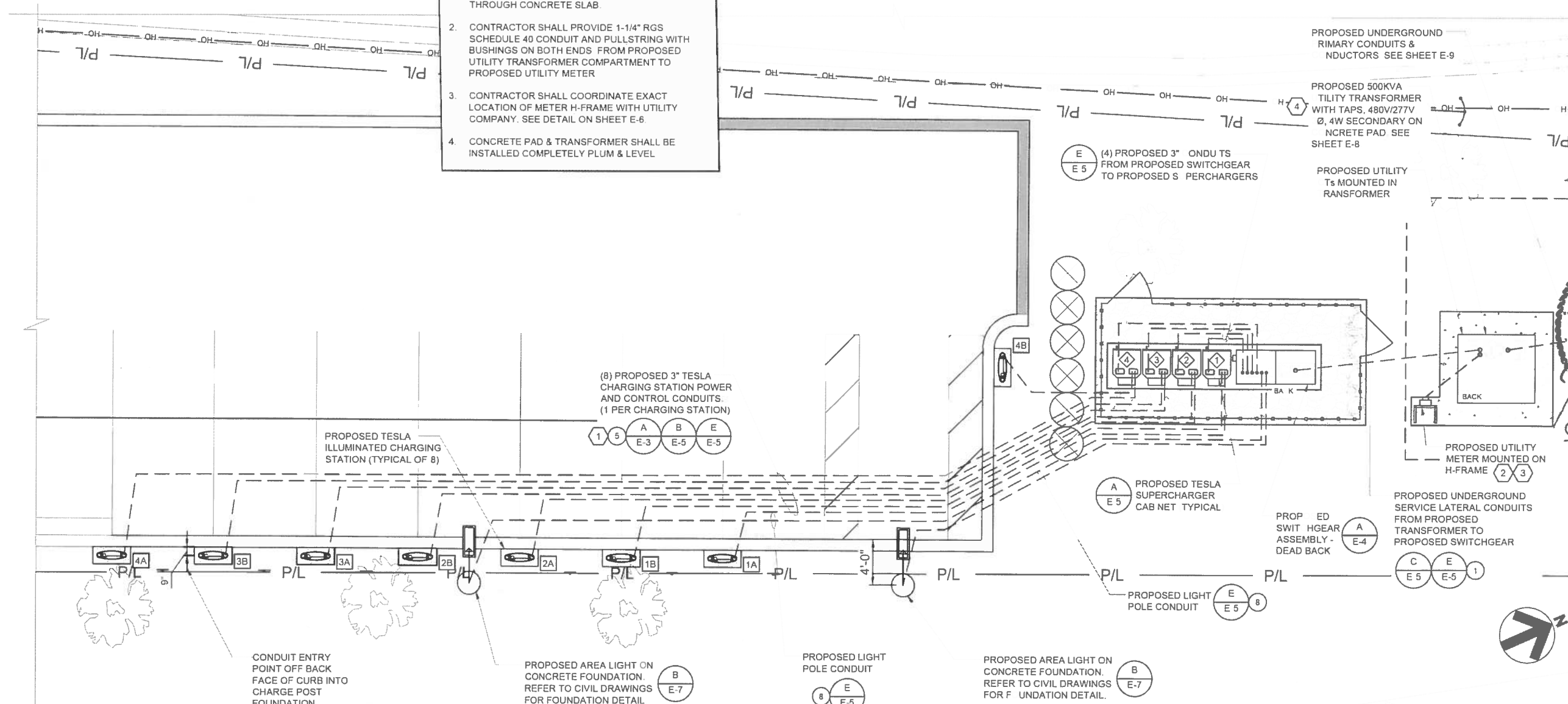
ELECTRICAL SITE PLAN

SHEET NUMBER

E-2

SHEET KEY NOTES

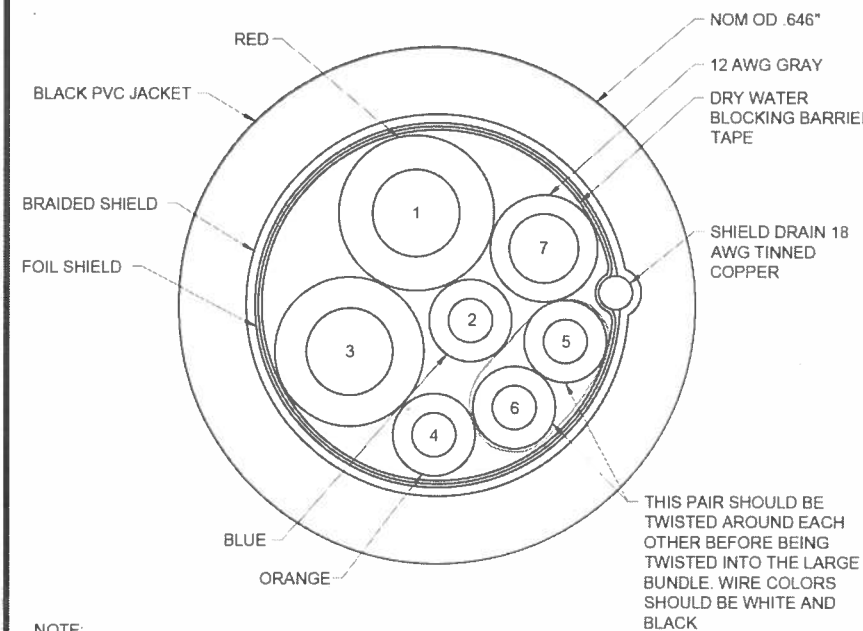
- UNDERGROUND CONDUITS SHALL BE ROUTED UP THROUGH CONCRETE SLAB
- CONTRACTOR SHALL PROVIDE 1-1/4" RGS SCHEDULE 40 CONDUIT AND PULLSTRING WITH BUSHINGS ON BOTH ENDS FROM PROPOSED UTILITY TRANSFORMER COMPARTMENT TO PROPOSED UTILITY METER
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF METER H-FRAME WITH UTILITY COMPANY. SEE DETAIL ON SHEET E-6
- CONCRETE PAD & TRANSFORMER SHALL BE INSTALLED COMPLETELY PLUMB & LEVEL



ELECTRICAL SITE PLAN

0 5' 10' SCALE: 1"=10'-0" (11x17)

TO BE PROVIDED BY TESLA



NOTE:
E73202 3/C 18AWG(.824MM2)+1/PR 18AWG(.824MM2)+1/C
12AWG(3.31MM2)+1/C 10AWG(5.26MM2) (UL) TYPE TC-ER 90C DRY
75C WET 600V SUN RES DIR BUR OIL RES II UL 1277 OR c(UL)
CIC-TC FT4 -- LL41103 CSA AWM I/II A/B 90C 600V FT4 -- CE ROHS

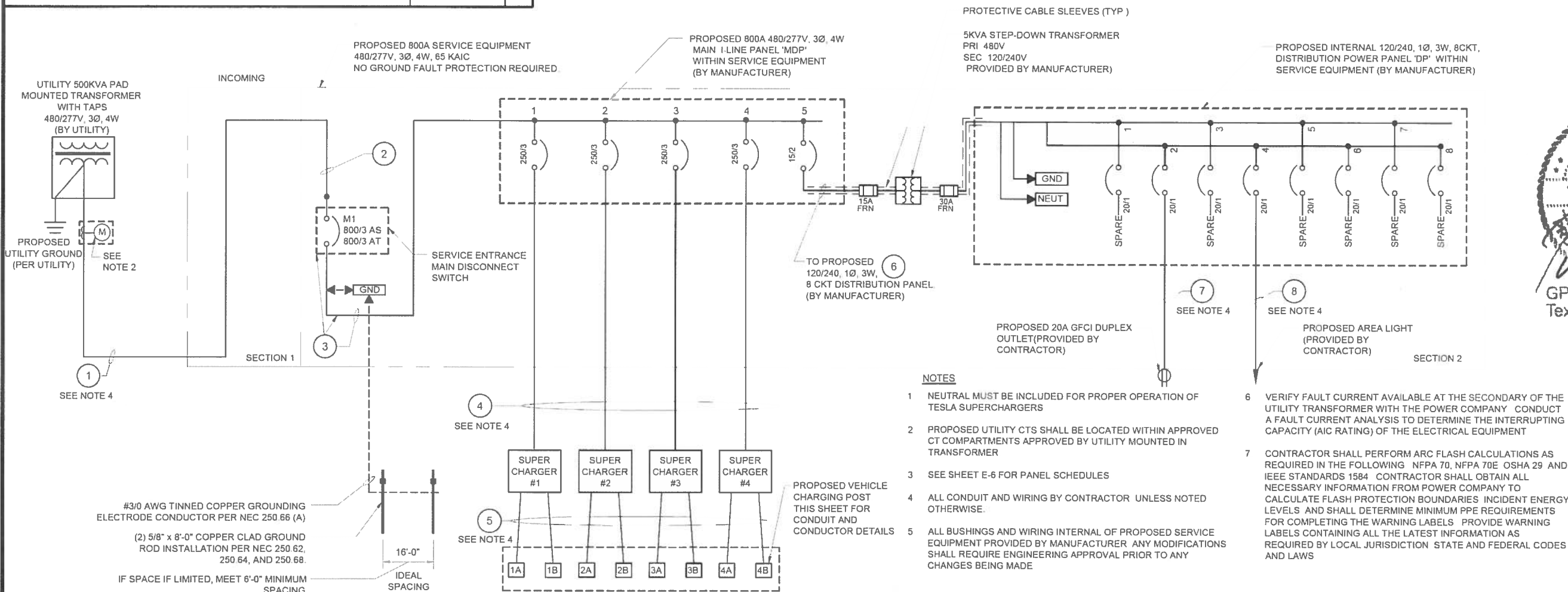
COMMUNICATION CABLE DETAIL

N.T.S

B

FEEDER/CIRCUIT SCHEDULE							
NO	FROM	TO	CONFIGURATION	NO	FROM	TO	CONFIGURATION
1	UTILITY TRANSFORMER / METERING	PROPOSED SERVICE EQUIPMENT, INCOMING	(3) 300 MCM (THWN-2) & (1) 300MCM (THWN-2) NEUT IN EACH (3) 4" CONDUITS	5	PROPOSED TESLA SUPERCHARGER 1	PROPOSED TESLA CHARGING POST	1A (4) 250MCM AWG AI (THWN-2) + #3 AWG AI GND + COMM CABLE (PER TESLA) IN 3" CONDUIT.
2	PROPOSED SERVICE EQUIPMENT, INCOMING	PROPOSED SERVICE EQUIPMENT; 800A TRIP MAIN BREAKER	FACTORY INSTALLED 800A BUSS (BY MANUFACTURER)		PROPOSED TESLA SUPERCHARGER 2	PROPOSED TESLA CHARGING POST	2A (4) 250MCM AWG AI (THWN-2) + #3 AWG AI GND + COMM CABLE (PER TESLA) IN 3" CONDUIT
3	PROPOSED SERVICE EQUIPMENT, 800A TRIP MAIN BREAKER	PROPOSED SERVICE EQUIPMENT; BRANCH CIRCUIT DISTRIBUTION I-LINE PANEL	FACTORY INSTALLED 800A BUSS (BY MANUFACTURER)		PROPOSED TESLA SUPERCHARGER 3	PROPOSED TESLA CHARGING POST	3A (4) 250MCM AWG AI (THWN-2) + #3 AWG AI GND + COMM CABLE (PER TESLA) IN 3" CONDUIT
4	PROPOSED SERVICE EQUIPMENT, CIRCUIT 1 I-LINE PANEL (250AMP)	PROPOSED TESLA SUPERCHARGER 1	(3) 300MCM (THWN-2) AWG, (1) 300MCM (THWN-2) AWG NEUT, (1) 4 AWG GND IN 3" CONDUIT		PROPOSED TESLA SUPERCHARGER 4	PROPOSED TESLA CHARGING POST	4A (4) 250MCM AWG AI (THWN-2) + #3 AWG AI GND + COMM CABLE (PER TESLA) IN 3" CONDUIT
	PROPOSED SERVICE EQUIPMENT, CIRCUIT 2 I-LINE PANEL (250AMP)	PROPOSED TESLA SUPERCHARGER 2	(3) 300MCM (THWN-2) AWG, (1) 300MCM (THWN-2) AWG NEUT, (1) 4 AWG GND IN 3" CONDUIT				
	PROPOSED SERVICE EQUIPMENT, CIRCUIT 3 I-LINE PANEL (250AMP)	PROPOSED TESLA SUPERCHARGER 3	(3) 300MCM (THWN-2) AWG, (1) 300MCM (THWN-2) AWG NEUT, (1) 4 AWG GND IN 3" CONDUIT				
	PROPOSED SERVICE EQUIPMENT, CIRCUIT 4 I-LINE PANEL (250AMP)	PROPOSED TESLA SUPERCHARGER 4	(3) 300MCM (THWN-2) AWG, (1) 300MCM (THWN-2) AWG NEUT, (1) 4 AWG GND IN 3" CONDUIT	8	SERVICE GEAR POWER SUPPLY (BY MANUFACTURER)	PROPOSED 8 CKT, 120/240V, 1Ø POWER DISTRIBUTION PANEL (BY MANUFACTURER)	FACTORY INSTALLED CABLING (BY MANUFACTURER)
				7	PROPOSED 8 CKT, POWER DISTRIBUTION PANEL CIRCUIT #2, 20A, 120V	PROPOSED 20A GFCI DUPLEX OUTLET (BY CONTRACTOR)	(1) #12(THWN-2) AWG + (1) #12 (THWN-2) AWG NEUT + (1) #12 GND IN 3/4" CONDUIT
				8	PROPOSED 8 CKT, POWER DISTRIBUTION PANEL CIRCUIT #4, 20A, 120V	PROPOSED 120V AREA LIGHT FIXTURE (BY CONTRACTOR)	(1) #10(THWN-2) AWG + (1) #10 (THWN-2) AWG NEUT + (1) #10 GND IN 1" CONDUIT

NOTE ALL ALUMINUM (AI) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE



SYSTEM ONE-LINE DIAGRAM

N.T.S

A

TESLA
MOTORS, INC.

3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 881-5000

GPD GROUP
Professional Corporation

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

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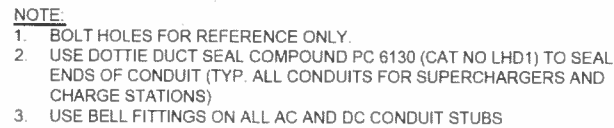


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AUSTIN, TX 78752

SHEET TITLE
SYSTEM ONE-LINE
DIAGRAM

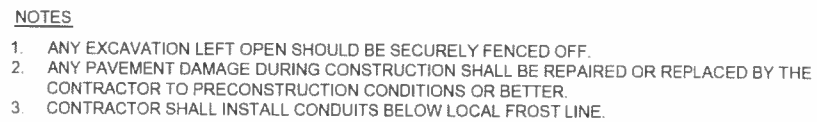
SHEET NUMBER

E-3



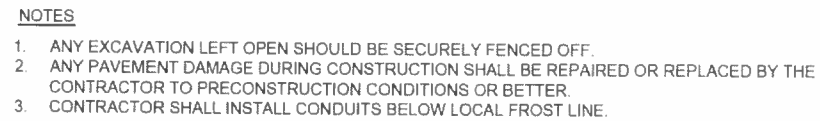
N.T.S

A



N.T.S

	B
--	---



N.T.S

	C
--	---



N.T.S

D



N.T.S

E

SHEET NUMBER

E-5

- PANELBOARD NOTES
- PANELS ARE LOCATED WITHIN PROPOSED SERVICE EQUIPMENT AND IS PROVIDED AND INSTALLED BY MANUFACTURER.
 - REFER TO DETAIL 'A' SHEET E-4 FOR PROPOSED SERVICE EQUIPMENT LAYOUT PROVIDED BY MANUFACTURER.
 - PROVIDE EQUIPMENT WITH SUFFICIENT INTERRUPTING CAPACITY (AIC) REQUIRED FOR A SAFE INSTALLATION. AIC RATING NOTED ON EACH PANELBOARD SCHEDULE IS MINIMUM RATING ACCEPTED WITHOUT ADDITIONAL DOCUMENTATION THAT INDICATES DIFFERENTLY.
 - CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE TYPED PANEL DIRECTORY MOUNTED PER MANUFACTURERS RECOMMENDATIONS WITH SERVICE EQUIPMENT.

PANEL 'DP'

DESCRIPTION	Phase A KW	Phase B KW	Ckt. Bkr poles	Ckt #		Ckt #	Ckt. Bkr poles	Phase A KW	Phase B KW	DESCRIPTION	
SPARE	0.00		20 / 1	1		2	20 / 1	1.92		DUPLEX RECEPTACLE	
SPARE		0.00	20 / 1	3		4	20 / 1		15.00		LED LIGHT POLE
SPARE	0.00		20 / 1	5		6	20 / 1	0.00			SPARE
SPARE		0.00	20 / 1	7		8	20 / 1		0.00		SPARE
	0.00	0.00						1.92	15.00		
Connected						Diversify					
KW 1.92 15.00											
AMPS 16.00 125.00											
Total KW 16.92						Total KW 16.92					
Total AMPS 70.50						Total AMPS 70.50					
VOLTAGE 120 / 240 Phase 1 No. of Wire 3 NEMA 3R ENCLOSURE											
MAIN <input checked="" type="checkbox"/> C/B <input type="checkbox"/> LUGS BUS 100 AMP * KAIC (SEE NOTE BELOW)											
SERVICE ENTRANCE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
RATED ISO. GND. BUS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											

NOTE: * = CONTRACTOR SHALL VERIFY 'AIC' RATINGS WITH UTILITY COMPANY AFTER PROCUREMENT OF SYSTEM TRANSFORMERS

PANEL MOUNTED IN SERVICE ENTRANCE EQUIPMENT

PANEL SCHEDULE 'DP'

N.T.S

B

PANEL 'MDP'

DESCRIPTION	Phase A KW	Phase B KW	Phase C KW	CKT. BKR / Poles		CKT. BKR / Poles	Phase A KW	Phase B KW	Phase C KW	DESCRIPTION	
MAIN SERVICE ENTRANCE DISCONNECT SWITCH				800/3	1		2				SPACE
					3		4				
					5		6				
					7		8				
					9		10				
SPACE					11					SPACE	
					12						
					13						
					14						
					15						
SUPER CHARGER #1	53.33			250/3	16					SPACE	
		53.33			17						
			53.33		18						
					19						
					20						
SUPER CHARGER #2	53.33			250/3	21					SPACE	
		53.33			22						
			53.33		23						
					24						
					25						
SUPER CHARGER #3	5.33			250/3	26					SPACE	
		53.33			27						
			53.33		28						
					29						
					30						
SUPER CHARGER #4	53.33			250/3	31					SPACE	
		53.33			32						
			53.33		33						
					34						
					35						
PANEL 'DP'	1.92			15/2	36					SPACE	
		0.00			37						
					38						
					39						
					40						
SPACE					41					SPACE	
					42						
CONNECTED											
KW 167.24 213.32 213.32											
AMPS 603.75 770.11 770.11											
TOTAL KW 593.88											
TOTAL AMPS 714.33											
DIVERSITY:											
To UTILITY XFMR TOTAL KW 460.00 *											
TOTAL AMPS 553.29											
VOLTAGE 480 Y/ 277 PHASE 3 No OF WIRES 4 NEMA 3R ENCLOSURE											
MAIN <input checked="" type="checkbox"/> C/B <input type="checkbox"/> 3 POLES <input type="checkbox"/> LUGS BUS 800 AMPS 65 KAIC											
SERVICE ENTRANCE RATED <input checked="" type="checkbox"/> SPD <input type="checkbox"/> ISOLATED GROUNDED BUS <input type="checkbox"/> SURFACE <input type="checkbox"/>											
200% RATED NEUTRAL <input type="checkbox"/> FULLY RATED <input checked="" type="checkbox"/> FLUSH <input type="checkbox"/>											

* BASED OFF TESLA SUPERCHARGER LOAD PROFILE

PANEL MOUNTED IN SERVICE ENTRANCE EQUIPMENT

PANEL SCHEDULE 'MDP'

N.T.S

C



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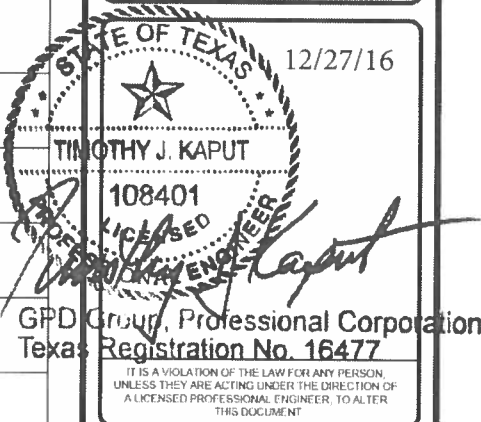
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330 572 2100 Fax: 330.572.2102

PROJECT NO: 2018241.21

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C	09.29.16	ADDED HANDICAP STALL
B	09.15.16	ISSUED FOR 50% REVIEW
A	08.23.16	ISSUED SITE SKETCH




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SHEET TITLE
PANEL SCHEDULES

SHEET NUMBER

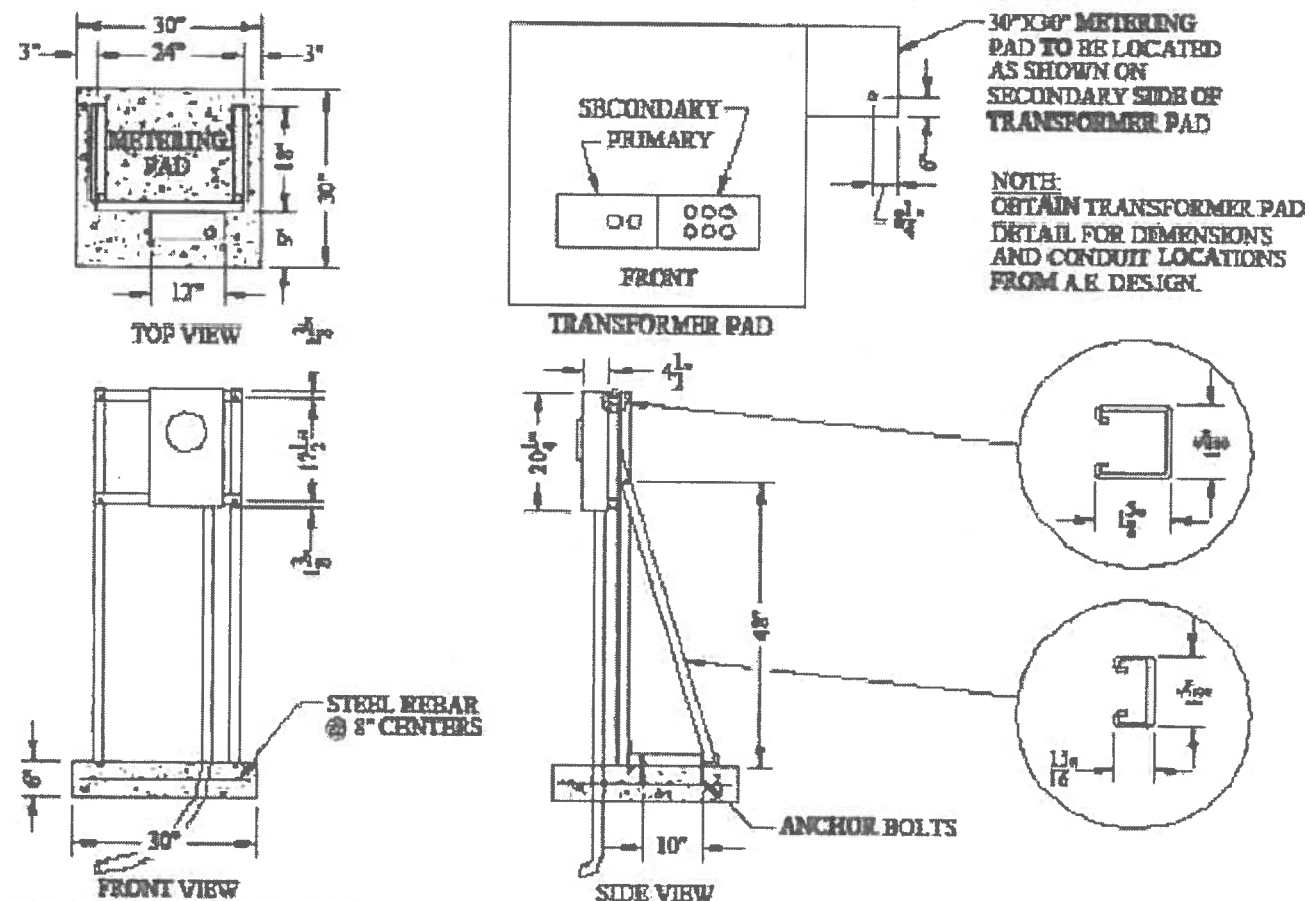
E-6

Figure 1-11A. S-1 Socket Enclosure (Typical Installation)

	METERING	1-11a
	5-1 SOCKET ENCLOSURE TYPICAL INSTALLATION	Sheet 1 of 1
	Rev. 06/30/14	11/05/07

MATERIAL NOTES:

1. CONSTRUCT SUPPORT STRUCTURE USING 12-GAUGE STEEL-SLOTTED CHANNEL UNITS TRUIT METAL FRAMING, ANGLE FITTINGS, BOLTS AND NUTS AS SHOWN. THE SUPPORT STRUCTURE SHALL BE STATIONARY. ADDITIONAL BRACING MAY BE REQUIRED.
2. 1/8" THREADED ANCHOR BOLTS IN CONCRETE SHALL HAVE A MIN. PULL-OUT STRENGTH OF 2000 lbs.



NOTES: 6 TERMINAL AND 13 TERMINAL

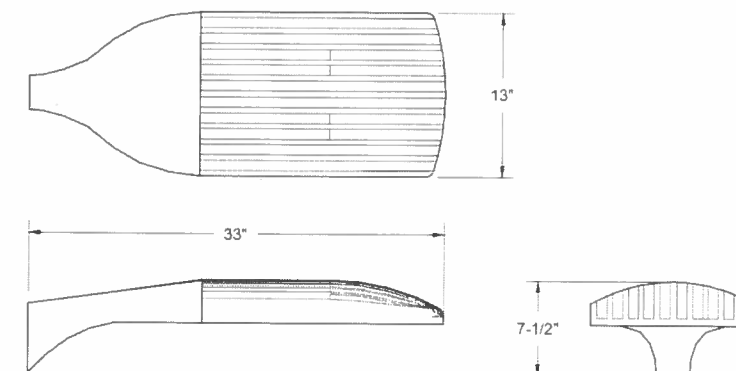
1. METERING AT THE TRANSFORMER PAD IS ONLY AVAILABLE FOR SINGLE METER INSTALLATION.
2. CURRENT TRANSFORMERS TO BE INSTALLED AT THE SECONDARY BUSHINGS OF THE TRANSFORMER BY AUSTIN ENERGY.
3. METER ENCLOSURE SHALL BE INSTALLED FACING THE FRONT OF THE TRANSFORMER PAD.
4. INSTALL METER CONTROL CABLE CONDUIT (1-1 1/2" SCHEDULE 80 PVC OR RIGID METAL) TO ENTER METER ENCLOSURE AT BOTTOM-RIGHT.
5. ALTERNATE LOCATION: WITH APPROVAL OF THE COMPLEX METERING-OPERATION SECTION, THE METER ENCLOSURE MAY BE INSTALLED ON A PERMANENT WALL WITHIN SIGHT (VISIBLE AND NOT MORE THAN 30 FEET) FROM THE TRANSFORMER PAD.
6. STEEL BARRIER POSTS WILL BE REQUIRED WHEN THE TRANSFORMER PAD IS INSTALLED WITHIN 4 FEET OF A TRAFFIC AREA.
7. HEIGHT TO CENTER OF THE METER SOCKET OPENING FROM A PERMANENT STANDING SURFACE SHALL BE 48"-72".
8. RUN A #6 GROUND WIRE (EITHER SOLID OR STRANDED) FROM THE SECONDARY COMPARTMENT OF THE PAD MOUNT TRANSFORMER TO THE METER SOCKET. BOND THE GROUND WIRE TO THE METER SOCKET.

LITHONIA LIGHTING: D-SERIES SIZE 1 LED AREA LUMINARIE

SERIES: DSX1 LED
LIGHTING ENGINES: (2) ENGINES (60 LEDS)
PERFORMANCE PACKAGE: 700/40K (4000K)
DISTRIBUTION: T4M (TYPE IV MEDIUM)
VOLTAGE: MVOLT 120V (60HZ)
MOUNTING: SQUARE POLE MOUNTING (SPA) (COORDINATE WITH POLE)
CONTROL OPTIONS: PER (NEMA TWIST LOCK RECEPTACLE ONLY, NO CONTROLS)
HS (HOUSE-SIDE SHIELD)
SF (SINGLE FUSE (120V))
WTB (UTILITY TERMINAL BLOCK)

FINISH: DDBXD (DARK BRONZE)
ACCESSORIES: DLL127F 1.5 JU (PHOTOCELL - SSL TWIST-LOCK, 120-277V)
LUMEN OUTPUT: 700mA, 131W

CAT#: DSX1 LED 60C 700 40K T4M MVOLT (120) SPA PER HS SF WTB DDBXD DLL127F1.5 JU
POLE CAT# SSA 18 5G DM19AS VD FBC DDBXD



NOTE:

- NOTE:
1. CONTRACTOR TO VERIFY EXISTING COLOR TEMP IN SURROUNDING AREAS AND PROPOSED LED COLOR TEMP ARE COMPARABLE.

AREA LIGHT FIXTURE DETAIL

N.T.S

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A	08.23.16	ISSUED SITE SKETCH
REV.	DATE	DESCRIPTION

STATE OF TEXAS 12/27/16
TIMOTHY J. KAPUT
108401
PROFESSIONAL ENGINEER
Kaput
GPD Group, Professional Corporation
Texas Registration No. 16477

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AUSTIN, TX 78752

SHEET TITLE

ELECTRICAL DETAILS


SHEET NUMBER

E-7

ELECTRICAL METER MOUNTING DETAIL (FOR REFERENCE ONLY)

N.T.S

A


1438-55	CIVIL PADS, CLEARANCES AND BARRIERS NOTES FOR SINGLE & THREE PHASE XFMR PADS	 Rev: 06/15/11
Sheet 1 of 2		
03/06/06		

1438-55 NOTES FOR SINGLE & THREE PHASE XFMR PADS

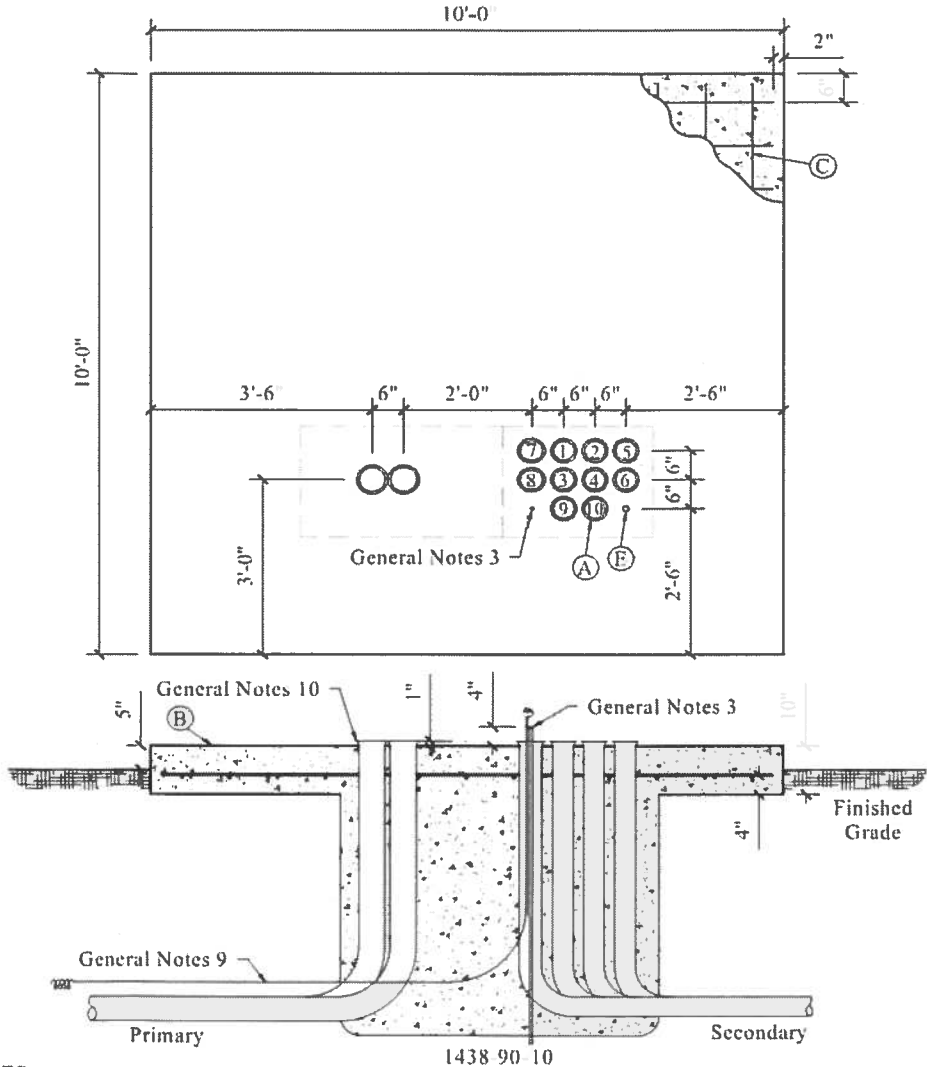
GENERAL NOTES FOR CONCRETE PADS FOR SINGLE AND 3 PHASE PAD-MOUNTED TRANSFORMERS

- FOR SHELL BUILDINGS, STUB ALL SPARE CONDUITS AT THE BUILDINGS SERVICE RISER.
- ALL UNUSED SPARE CONDUITS SHALL BE STUBBED 5 FEET BEYOND THE EDGE OF THE PAD.
- GROUND ROD DETAIL 1488-10 (PREFERRED)
THE GROUND ROD SHALL BE INSTALLED AS PER SECTION 1488-10. THE GROUND ROD SHALL BE INSTALLED ON THE SECONDARY SIDE OF THE TRANSFORMER PAD. THE GROUND ROD SHALL BE INSTALLED NO LESS THAN 4" AND NO GREATER THAN 6" ABOVE THE PAD SURFACE. WHEN A BURIED GROUND ELECTRODE IS INSTALLED, A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE GROUND ROD WITH A MINIMUM 12" TAIL EXPOSED ABOVE THE FINISHED CONCRETE PAD SURFACE. THE GROUND ROD SHALL BE 5/8" X 8' COPPER CLAD.
- GROUND WIRE DETAIL 1488-20 (OPTIONAL)
IN CONDITIONS WHERE THE INSTALLATION OF A GROUND ROD IS NOT FEASIBLE, 35' OF 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE ENCASED BY A 2" CONCRETE ENVELOPE SHALL BE INSTALLED AS PER SECTION 1488-20. A 2/0 AWG STRANDED BARE SOFT DRAWN TINNED COPPER WIRE SHALL BE BONDED TO THE 2/0 GROUND WIRE WITH A MINIMUM 12" TAIL EXPOSED ABOVE FINISHED CONCRETE PAD SURFACE.
- STEEL BARRIER POSTS WILL BE REQUIRED WHENEVER TRANSFORMER PAD IS INSTALLED WITHIN 4' OF A TRAFFIC AREA. SEE BARRIER POST DETAIL DRAWING 1438-10, FOR CONSTRUCTION DETAILS AND CLEARANCE REQUIREMENTS.
- COMPACT SOIL BENEATH PADS TO AT LEAST 95% COMPACTION. PRIOR TO INSTALLING PADS, AUSTIN ENERGY MUST INSPECT PAD AND APPROVE PRIOR TO POURING ANY CONCRETE.
- CONCRETE SHALL CONFORM TO ASTM C-150 AND SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 LBS AT 28 DAYS. CONCRETE SLUMP SHALL BE NO MORE THAN 4-IN. MAXIMUM AGGREGATE SHALL NOT EXCEED 1-1/2 IN. REINFORCING RODS SHALL BE INTERMEDIATE GRADE (GRADE 60) AND SHALL CONFORM TO ASTM A-615.
- GRADE AREA AROUND THE PAD, SO THAT DRAINAGE IS ALWAYS AWAY FROM THE PAD. RETAINING WALLS AND DRAINAGE CHANNELS MAY BE REQUESTED BY THE UTILITY, TO PREVENT WATER AND DEBRIS FROM ACCUMULATING ON THE ROAD.
- 90° (MIN. 24" RADIUS) CONDUIT BEND SHALL BE COMPLETELY CONCRETE ENCASED.
- INSTALL #6 BARE COPPER WIRE 6" BELOW FINISHED GRADE FOR TELECO LEAVE 12" EXPOSED ABOVE PAD TO BE CONNECTED TO GROUND ROD (OR GROUND WIRE, WHICHEVER METHOD IS USED) WHEN CONNECTIONS ARE MADE IN THE TRANSFORMER.
- BELL ENDS SHALL BE 1" ABOVE PAD.

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1438-90	CIVIL PADS, CLEARANCES AND BARRIERS PAD CIP 3PH XFMR 10FT X 10FT (75-2500KVA)	 Rev: 04/25/13
Sheet 1 of 2		
03/06/06		

1438-90 PAD CIP 3PH XFMR 10FT X 10FT (75-2500KVA)



- NOTES:
- FOR ALL 3 PHASE TRANSFORMER SIZES, A MAXIMUM OF 10 CONDUITS AND 10 SETS OF CABLE PER PHASE, AS SPECIFIED BY A-E DISTRIBUTION DESIGN, CAN BE INSTALLED IN THE ARRANGEMENT AND NUMERICAL ORDER AS SHOWN.
 - TOP OF SLAB 5" ABOVE FINISHED GRADE.
 - 1/2 IN. GRADE 60 REINFORCED STEEL RODS 9" ON CENTER.
 - REFER TO GENERAL NOTES ON SECTION 1438-55 FOR DETAILS ON TRANSFORMER CONCRETE PAD CONSTRUCTION.
 - WHEN METERRING AT THE TRANSFORMER, A 1.25' CONDUIT SHALL BE INSTALLED.

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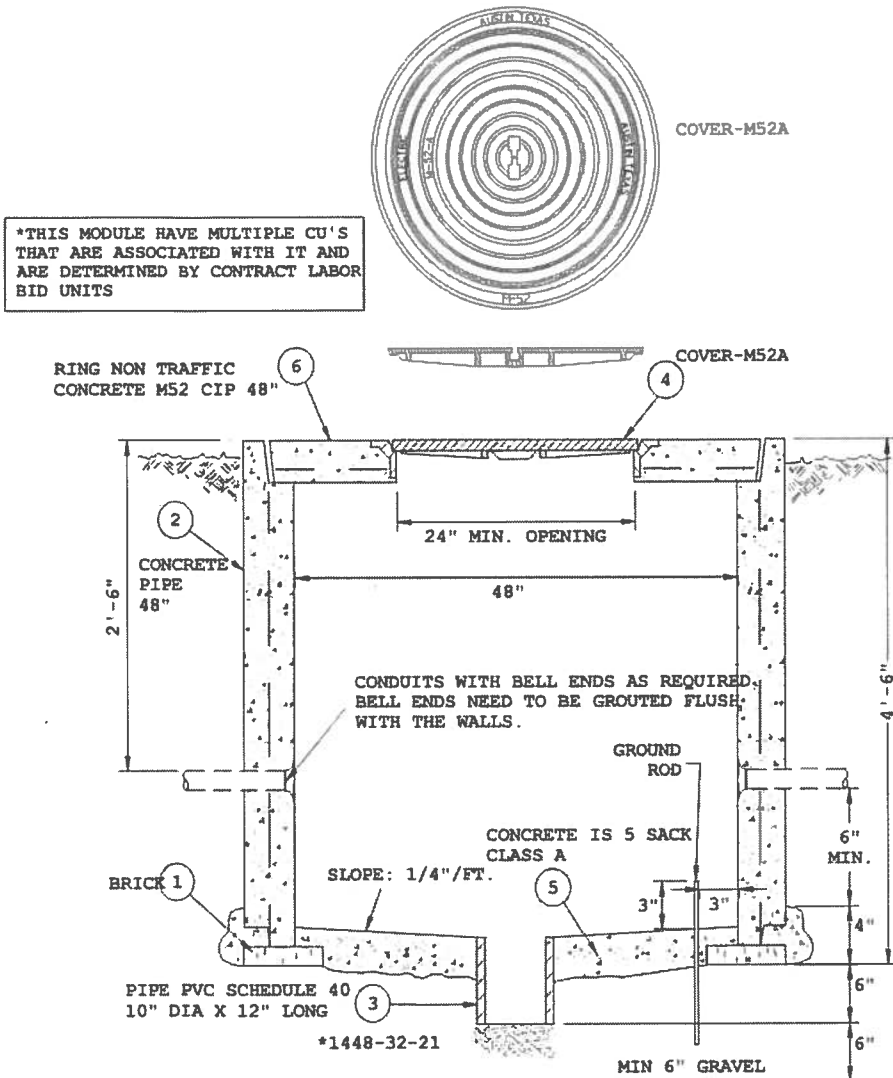
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SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-8

1448-32	CIVIL	
Sheet 1 of 4	PULLBOXES	
08/12/02	PULLBOX 48-IN. W/STANDARD COVER	
		Rev: 06/21/11

1448-32 PULLBOX 48-IN. W/STANDARD COVER



- NOTES:
- * GROUNDING: 35' OF 2/0 STRANDED BARE SOFT-DRAWN, TINNED COPPER GROUND OR 5/8" X 8'-0"CU. COPPERWELD GROUND ROD. (SEE GROUNDING DETAIL 1488-10 AND 1488-20).
 - * MAXIMUM ALLOWABLE CABLE BY THE CUSTOMERS: 1-500 MCM PER PHASE OR 2-4/0 AWG PER PHASE.
 - * METAL RING & CONCRETE RING PRE-CAST TO FIT GROOVE DIA. & DEPTH W/ 1/2" CLEARANCE AROUND EDGE OF PULL BOX.
 - * 48" PULL BOXES SHALL BE REQUIRED WHENEVER IT IS NECESSARY TO STACK TWO PULL BOXES.
 - * TOP OF BOX NEEDS TO BE 3" TO 4" ABOVE NATURAL GROUND LEVEL.
 - * WHEN THE HANDHOLD IS INSTALLED IN DRIVEWAYS AND PARKING LOTS, USE TRAFFIC TYPE SHOWN ON PAGE 1488-33

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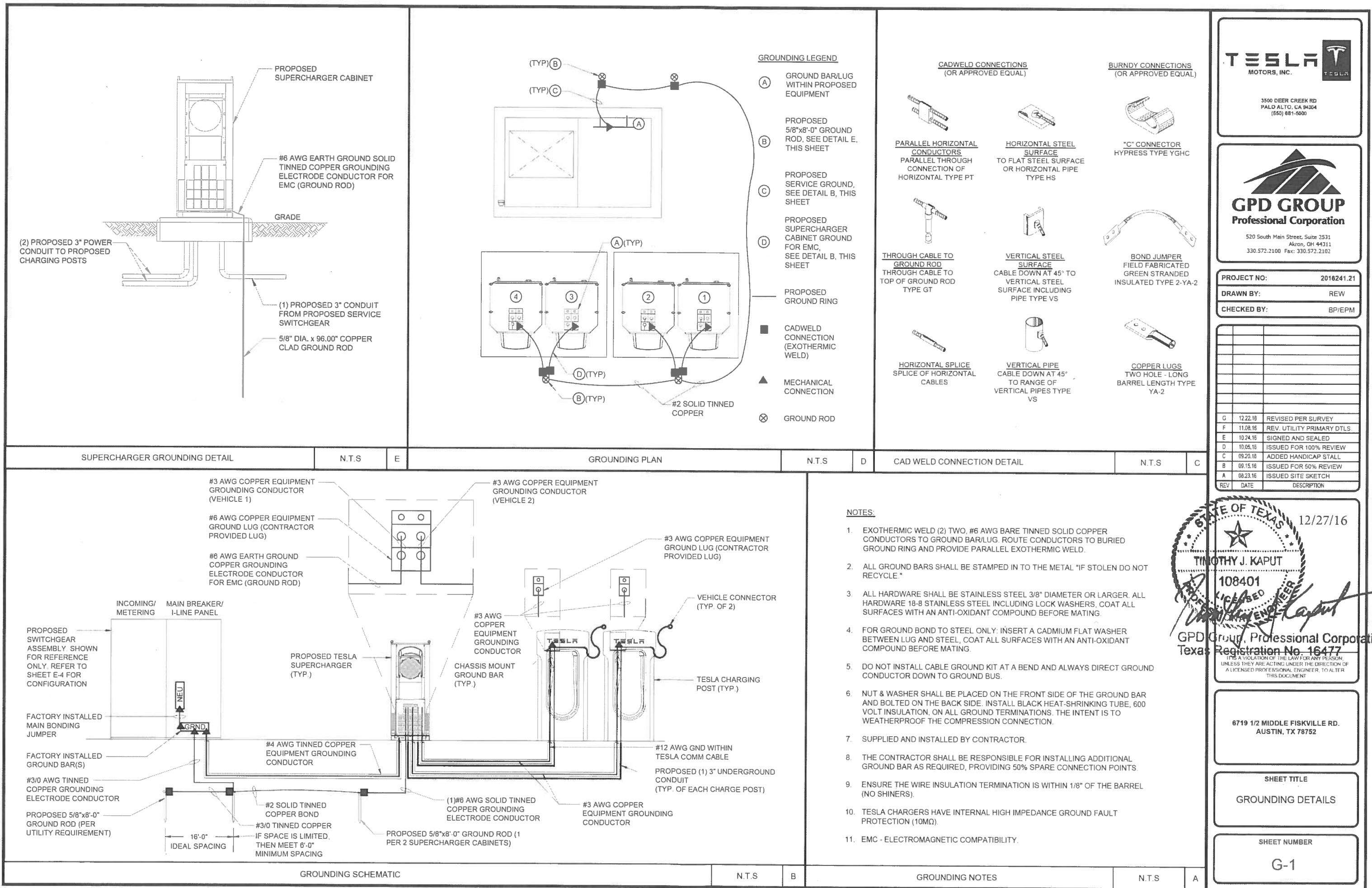
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A

48" DIA. PULLBOX DETAIL

N.T.S

B



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STATE OF TEXAS 12/27/16

TIMOTHY J. KAPUT

108401

REGISTERED PROFESSIONAL ENGINEER

GPD Group, Professional Corporation
Texas Registration No. 16477


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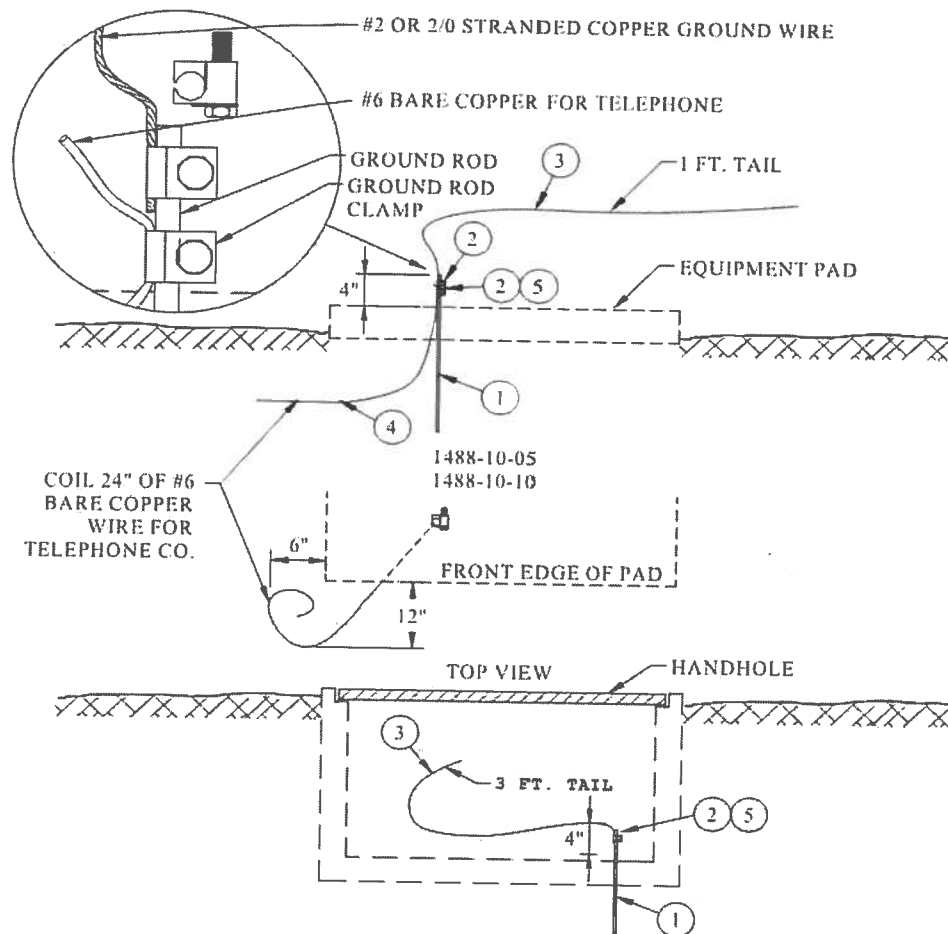
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-1

1488-10	CIVIL	 Rev: 12/20/10
Sheet 1 of 2	UNDERGROUND STRUCTURES GROUNDING	
08/12/02	GROUNDING STRUCTURES IN SOFT SOIL	

1488
1488-10 UNDERGROUND STRUCTURES GROUNDING
GROUNDING STRUCTURES IN SOFT SOIL




- NOTES:
1. WHEN INSTALLED IN SOFT SOIL, EQUIP ALL PAD-MOUNTED EQUIPMENT LOCATIONS AND SUBSTRUCTURES WITH PRIMARY CABLE SPLICES, WITH AT LEAST ONE GROUND ROD.
 2. EXACT LOCATIONS OF GROUND RODS AND GROUND WIRES ARE SPECIFIED IN EQUIPMENT PAD DETAILS. ALL SWITCHGEAR PADS, REQUIRE THE INSTALLATION OF AT LEAST TWO GROUND RODS, AT THE LOCATIONS SHOWN ON PAD DETAILS.
 3. THE GROUND WIRE SHALL BE #2 STRANDED SOFT-DRAWN TINNED CU, AT ALL TRANSFORMER PADS AND HANDHOLES, WITH 500 KCMIL AND 750 KCMIL SPLICES.
 4. INSTALL #6 BARE CU GROUND FOR TELEPHONE CO AT ALL PAD-MOUNTED TRANSFORMER LOCATIONS AS SHOWN.
 5. GROUND RESISTANCE SHOULD BE LESS THAN 25 OHMS AT THE TIME OF INSTALLATION.
 6. IF ONE DRIVEN GROUND ROD IS NOT ADEQUATE TO ACHIEVE 25 OHMS OF GROUND RESISTANCE, AE MAY ASK FOR ADDITIONAL GROUND RODS OR BURIED ENCASED ELECTRODE GROUND INSTALLATION AS SHOWN ON PAGE 1488-20.

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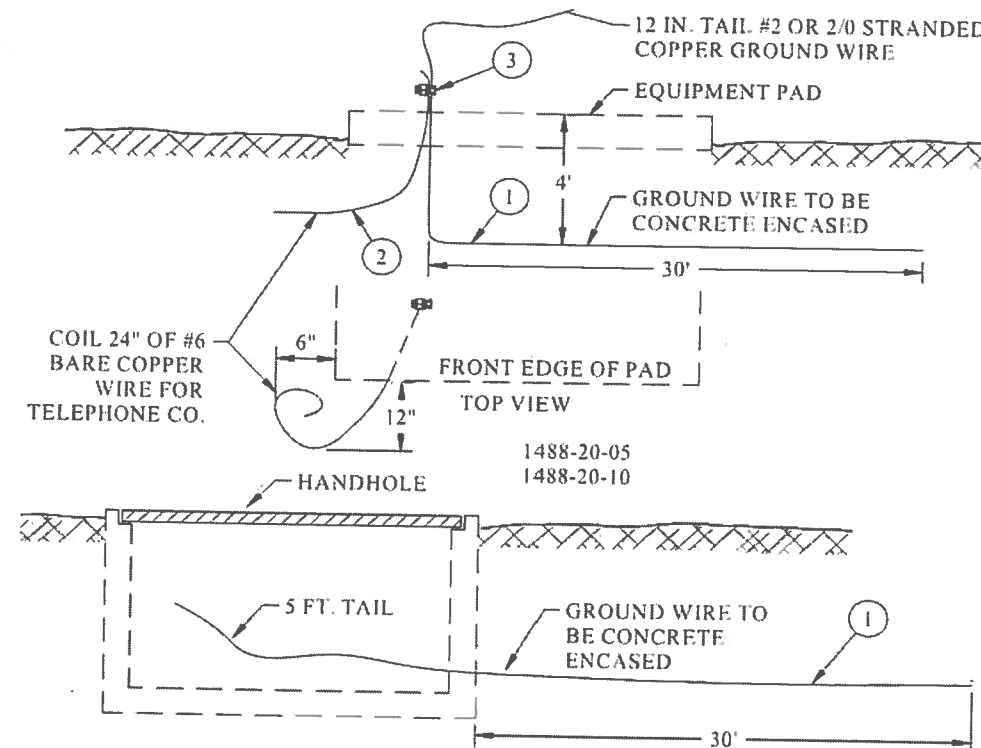
TRANSFORMER GROUND (SOFT SOIL)

N.T.S

A

1488-20	CIVIL	 Rev: 12/20/10
Sheet 1 of 3	UNDERGROUND STRUCTURES GROUNDING	
08/12/02	GROUNDING STRUCTURES IN ROCKY SOIL	

1488-20 GROUNDING STRUCTURES IN ROCKY SOIL



- NOTES:
1. ALL PAD-MOUNTED EQUIPMENT LOCATIONS AND SUBSTRUCTURES WITH PRIMARY CABLE SPLICES SHALL BE EQUIPPED WITH A BURIED ENCASED ELECTRODE GROUND, WHEN INSTALLED IN ROCKY SOIL OR WHERE THE INSTALLATION OF A GROUND ROD AS SHOWN ON PAGE 1488-10 IS DEEMED ADEQUATE.
 2. LOCATIONS OF GROUND RODS AND GROUND WIRES ARE SPECIFIED IN EQUIPMENT PAD DETAILS.
 3. THE GROUND WIRE SHALL BE #2 STRANDED SOFT-DRAWN TINNED CU FOR TRANSFORMER PADS AND SECTIONALIZING CABINETS.
 4. THE BURIED ELECTRODE SHALL BE #2 STRANDED SOFT-DRAWN TINNED CU AT ALL TRANSFORMER PADS AND HANDHOLES WITH 1/0 AWG AL SPLICES.
 5. THE BURIED ELECTRODE SHALL BE INSTALLED SURROUNDED BY A 2-IN. CONCRETE ENVELOPE. IN URD INSTALLATIONS, WHERE SAND IS THE PREFERRED BACKFILL MATERIAL, THE PORTION OF THE CONDUIT WITH THE ENCASED ELECTRODE SHALL BE CONCRETE ENCASED.
 6. FOR TRANSFORMER INSTALLATIONS, THE ENCASED ELECTRODE SHALL ALWAYS BE INSTALLED IN THE PRIMARY CONDUIT TRENCH.

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TRANSFORMER GROUND (ROCKY SOIL)

N.T.S

B

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TRANSFORMER GROUNDING
DETAILS

SHEET NUMBER

G-2